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THE INDUSTRIOUS HEN

A MONTHLY MAGAZINE
FOR THE
COMMERCIAL AND FANCY POULTRYMAN



Bred from FIRST PRIZE HEN at
MADISON SQ. GARDEN
CARR BROS. Vineland, N.J.

THE INDUSTRIOUS HEN CO.
PUBLISHERS
KNOXVILLE TENNESSEE

BRIARCLIFF ORPINGTONS PROVED THEIR CLASS!

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THE INDUSTRIOUS HEN CO. : : Knoxville, Tennessee

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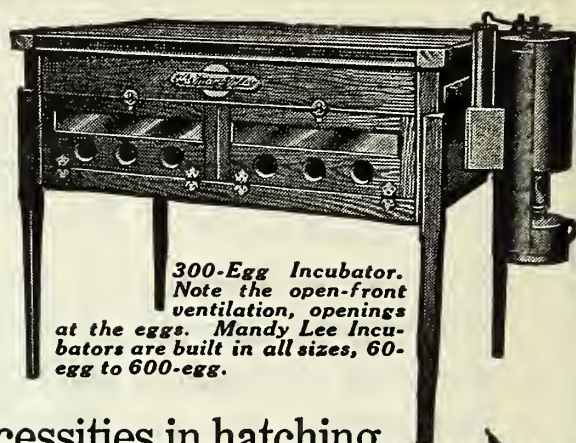
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EGGS

BABY CHICKS

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J. C. HUNT

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Won more first prizes in 1911-12 in some of the South's leading shows than all competitors together. Young stock better than ever before. If in need of cockerels, pullets or pens for breeding or showing, I can fill your needs.

J. G. ASHE, Owner and Breeder

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THE WORLD'S BEST

Send for Our Free Catalogue, Full of Bargains

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Box H, Hope, Indiana

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SINGLE COMB WHITE LEGHORNS

THAT LAY, WEIGH AND WIN

THERE is as much difference existing between the breeds and strains of our poultry as among cattle. Our dairies raise cattle for the milk. The vast ranches of the West raise cattle for their marketable value in meat.

Poultry is different, for why should we sell a hen at three or four months old simply for her meat when the average GROVE'S STRAIN of WHITE LEGHORN hens will lay 12 dozen eggs per year, which at 20c per dozen amounts to \$2.40. Her marketable value at three or four months would only have been probably, 40c. The same hen at the end of her laying season, is worth 60c to 70c in the market, making her worth a total of \$3.00. She will have cost in feed only \$1.10. Where, and in what other breed, can you realize \$1.90 clear profit upon an investment of \$1.10?

Our 64-page Catalogue will be sent post-paid for 50c in stamps, which describes breeding, incubating, conditioning, etc., not scientifically but by the common sense and nature method of raising poultry.

My Signature on Each and Every Egg Your Protection.

Don't start until you are sure you are right
If you do you'll fail, try as hard as you might.
If you raise poultry why not raise the best;
Breed the E. W. GROVE strain and watch the nest.

Utility eggs \$3.00 per setting, and up. No stock for sale. No baby chicks for sale. We cannot supply the demand. Exhibition eggs a matter of correspondence. Eggs in large quantities a matter of correspondence.

As the merits of LAXATIVE BROMO QUININE and GROVE'S TASTELESS CHILL TONIC, invented by my father, have developed one of the largest medicine companies of the world, it is likewise my purpose to establish one of the largest SINGLE COMB WHITE LEGHORN farms in America SIMPLY UPON THE MERITS.

NOT THE BEST IN THE WORLD, BUT AS GOOD AS CAN BE BRED

E. W. GROVE, JR. SPECIALTY BREEDER S. C. WHITE LEGHORNS

*We Envy No Man His Accomplishments
For They Are For Better Poultry*

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Life Member: American Poultry Association, National Single Comb White Leghorn Club

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Young stock, cross from two prize winning flocks. Our motto is "get the best." We have the best blood. Also Barred Rocks, Chickens and Indian Runner Ducks. Write us. E. ODOM, R. 1, Euche, Tennessee

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Must sell. 1st, 3rd cocks, 3rd cockerel, Tenn. State Fair. 2nd pen cockerel; 5th cockerel, Augusta, Ga., and 25 utility and show cockerels from my Atlanta sweepstakes cockerel and 1st Indianapolis cockerel at wonderfully low prices. You can't beat it. Write at once to L. P. MATTHEWS Thorntown, Ind.

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Prize winners at Louisville, Nashville, Memphis and Cleveland this season. Exhibition and breeding stock for sale on our liberal guarantee plan. Eggs in season. Write for our prices and list of winnings before you buy. MRS. H. R. NUSZ & SON, B. 300, Cecilian, Ky

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Forty nice pullets \$1.00 to \$3.00. Eggs for hatching. L. G. EVANS, Lithonia, Georgia.

White WYANDOTTES

J. G. ROBBINS, Mayfield, Kentucky

\$1.00 --- BARGAINS --- \$1.00

A few nice young Barred Rock and S. C. Rhode Island Red pullets at \$1.00 each while they last. Also extra fine Berkshire pigs, 3 months old, good breeding, at \$15.00 per pair.

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Knoxville, Tennessee.

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White and Fawn, and White Indian Runner Ducks. The winning kind, strong, vigorous and great layers of pure white eggs. If you are not satisfied with what you have, write me. Stock at all times. Eggs in season.

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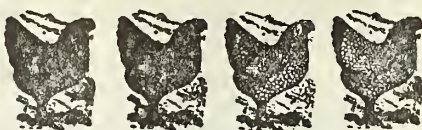
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Twice Told Tales

A hen that begins to lay in November and lays even as many as ten eggs a month through to the end of February, at the prices that prevail in any town, has paid for her feed for a whole year and all she produces the remaining eight months of the year is clear profit.

Bobby's father owned an incubator, and one day the little fellow was watching a chicken energetically breaking its way through its shell. Just then his father came along and Bobby said:

"Papa, I see how that chicken gets out of the shell, but what I can't understand is how he got into it."—Chicago Daily News.

An Aged Hen.

Mrs. Hall, of Norvell, Mass., has a hen that is 21 years old this summer and still lays eggs. Her name is Belva Lockwood and she has laid eggs regularly up to this year. Last year she laid 17, and when she was at the coy age of 16 she was producing 250 eggs a year, with the enthusiasm and industry of young broilers of two years.

"The only trouble with her" says Mrs. Hall "is that she's a little blind. She seems to feel her way, but if I let her out she's likely to get lost, so I keep her locked up."—Ex.

Argument For Specializing

A colored man was brought before a police judge charged with stealing chickens. He pleaded guilty and received sentence, when the judge asked how it was he managed to lift those chickens right under the window of the owner's house when there was a dog in the yard.

"Hit wouldn't be of no use, Judge," said the man, "to try to 'splain dis thing to you-all. Ef you was to try it you like as not would get yer hide full of shot an' get no chickens, nuther. Ef you want to engage in any rascality, Judge, yo' better stick to de bench, whar yo' am familiar."—Ex.



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Plenty of fine male birds for sale at hard time prices. For show or breeders. I will sell you show birds and guarantee them to win. Eggs for hatching at all times. Write me your wants. HERBERT HAUN, Mohawk, Tenn.

S. C. White Leghorns

The healthy, vigorous, free range, winter laying kind. Eggs that will hatch, \$1.00 per setting, \$5.00 per hundred. Directions for feeding and care of chicks free to customers. HADEL POULTRY FARM, R. F. D. 2, Wrightston Road, Augusta, Georgia.

WHITE S. C. WHITE PLYMOUTH ROCKS-LEGHORNS

Prize winners at all the leading shows. WHITE ROCK eggs, \$3.00 for 15; S. C. W. LEGHORN eggs, \$2.00 for 15. WM. H. BURCH, Box 850-H, Charleston, South Carolina.

SIGILIAN BUTTERCUPS

Eggs for hatching, \$2.50 for 15. Have a fine pen of these famous layers. A very few pullets and cockerels for sale. My mating list ready January 10th; send for one.

C. A. MOXLEY

Taylorville, Ill.

Wyckoff's Single Comb WHITE LEGHORNS FOR SALE

50 yearling hens, 150 pullets and cockerels at \$1.00 each. Well matured stock. MRS. HARRY COVINGTON, Guthrie, Ky.

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Bellevue Strain of WHITE and COLUMBIAN WYANDOTTES, S. C. WHITE LEGHORNS, and LIGHT BRAHMAS. Stock for sale. Over 30 years in business. MICHAEL K. BOYER, Box 26, Hammonton, Atlantic County, N. J.

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We breed only the best—the quality kind, both in exhibition and laying. Stock and eggs for sale. Write for prices.

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Write Your OWN Guarantee



We have started out to convince 100,000 users of Incubators that they can't afford to take off a single hatch until they have equipped themselves with our

A J A X I M P R O V E D OXYGEN VITALIZER



READ---SWORN PROOF

F. J. RUSSELL

Breeder of High Class Poultry.

Summerdale, N. Y., July 12, 1912.

Reliable Poultry Specialty Co.

Gentlemen: It affords me much pleasure to furnish you with a report of my work with your AJAX IMPROVED OXYGEN VITALIZER for 1912. From my first hatch I secured a big, strong chick from every egg but two. On the second hatch a chick from every egg but six, and on my third hatch of the season 307 chicks from 307 fertile eggs. I cannot speak too highly of the great worth of this truly wonderful device, and I heartily recommend it to all poultrymen and poultrywomen throughout the world.

With best wishes, I am,

Very sincerely yours,

MRS. F. J. RUSSELL.

Under Sworn to before me this 12th day
Seal of July, 1912.

C. R. CIPPERLY,
Notary Public.

BULLETIN

N. Y. State College of Agriculture

"OXYGEN is essential to normal development, the amount required increasing with the growth of the embryo. The eggs give off carbon dioxide and this increases as the embryo grows."

The Ajax Improved Oxygen Vitalizer delivers just the right amount of oxygen, 99 3-10 per cent. pure, to the egg chamber just when the chicks need it most. RESULTS! A Big, Strong Chick from Every Egg.

See Mrs. Russell's Letter Above.

Berwyn, Pa., Nov. 1, 1912.

Reliable Poultry Specialty Co.

Alexander, N. Y.

Gentlemen: So that you may fully realize what your AJAX IMPROVED OXYGEN VITALIZER did for me in 1912, I respectfully submit the following:

One Vitalizer, costing \$3.50, saved me \$126.80 the very first season.

In my experimental work I fully proved to my entire satisfaction that the AJAX IMPROVED OXYGEN VITALIZER is a positive preventive of chicks dying in the shell and of White Diarrhoea.

You may use this letter as fully as you choose, because the Poultry World ought to know the real value of this wonderful scientific device.

I wish you much success for 1913.

Yours very truly,

MARY D. NEWCOMB.

So overwhelming has been the proof which we have received from those who used the Vitalizer last season, that we make and pack with every Vitalizer that leaves our factory, a printed and officially signed "Money Back" guarantee.

We guarantee that the Ajax Improved Oxygen Vitalizer will produce a big, strong, vigorous chick from every hatchable egg placed in your incubator. We guarantee that it will prevent chicks dying in the shell and White Diarrhoea; and we furnish you with sworn proof of these facts printed on this page. If you have any doubt as to the strength of our guarantee, write one for yourself. Make it just as strong as you want to. All we ask is that you will carefully follow our instructions, and in all respects give the Vitalizer fair play. It will do the rest. We will cheerfully sign your guarantee, and return it to you with the Vitalizer. Oxygen is Life. Without Oxygen in the air that we breathe, we would die. The New York College of Agriculture tells you that Oxygen is essential to the normal development of your chicks. They also tell you that "the eggs give off quantities of Carbon Dioxide." Carbon Dioxide is simply another name for Carbonic Acid Gas. Carbonic Acid Gas, in the quantities that are found in the egg chamber of your incubators, is poisonous. "Dead in the shell" chicks are the direct result of this poisoning. Oxygen, as a powerful germ destroyer, purifies the air, overcomes the effects of the poison, and the chicks hatch, live and are free from White Diarrhoea. The Vitalizer costs \$3.50, complete, ready for use, delivered to you anywhere in the United States. It can be attached to any incubator in two minutes, and is so simple that anyone can operate it. One Vitalizer, bought by Miss Mary Newcomb, saved her \$126.80 the very first season. Her report is printed on this page for your information. If you have any doubts as to the truthfulness of it, write her, but kindly send stamp for reply. The best feature of the whole thing is that you don't have to take any chances in order to see for yourself the truthfulness of every statement that we make. The first thing to do is to send us your order. Do it to-day. Send along your own guarantee if you want to, but please get ready for that first hatch. We publish a valuable booklet on oxygen that we will gladly send you free, upon application.

Reliable Poultry Specialty Co

Department 5 :- Alexander, N. Y.

\$50.00 in GOLD will be GIVEN AWAY

To make sure that the VITALIZER is given FAIR PLAY, and to secure the interest of our patrons in the realms of scientific experimental work, we have set aside the sum named above to be divided at the close of the hatching season, among those making the best reports of their season's work: \$25.00 to the first, \$15.00 to the second and \$10.00 to the third. This contest is open to every user of our Vitalizer. No conditions except that all reports shall be received at the office of the Company properly verified, on or before August 1, 1913. Each report to be placed in a separate envelope, and marked "Vitalizer Contest." Reports will be passed upon by a disinterested committee, and awards made on or before Sept. 1st, 1913.



WM. COOK & SONS

ESTABLISHED 1873

ORIGINATORS

OF ALL THE

ORPINGTON FOWLS and DUCKS

Box H. Scotch Plains, N. J.

EVENTUALLY, if after the best Orpingtons, all varieties, you will send to their ORIGINATORS. WHY NOT NOW? and avoid loss and disappointment, we GUARANTEE safe delivery and SATISFACTION which is backed by a REPUTATION of thirty-nine years standing, THIS MEANS MUCH TO YOU. We are not here today and gone tomorrow as some breeders have been and are doing. Then EXPERIENCE counts; surely we should understand ORPINGTONS BETTER than a man who has had them just a year or two.

We MADE the Orpingtons, all of them, including the Blue Orpingtons, our latest production, and are RECOGNIZED HEAD-QUARTERS for the best. A VISIT to our plant, where you are CORDIALLY welcomed, will prove this, as well as our THIRTEEN THOUSAND first prizes, and our winning 103 first and 72 seconds at Madison Square in six showings, MORE than eight times as many firsts as any other Orpington breeder.

We can supply on the same day as order is received, the FINEST line of EXHIBITION BIRDS that we have ever had. IMPORTED birds from our ENGLISH PLANT, personally selected by our MR. P. A. COOK for the AMERICAN requirements, which English breeders do not know. Or AMERICAN bred birds from our MANY AMERICAN WINNERS, sons of our first prize Madison Square White, Buff, Black and Jubilee Orpington cockerels. NOW is the time to enquire and order your show birds. We supplied twenty times more first prize winners than any other breeder last season. Do not forget the \$50 CUPS WE GIVE which only our customers can compete for. It pays to own COOK ORPINGTONS. ASK THE PEOPLE WHO OWN THEM. SEND 10c FOR ILLUSTRATED CATALOGUE containing history of the origination of the Orpingtons, and hints on Poultry Keeping. We are supplying more first prize winners than ever. Often at a show every first prize bird will be a Cook Orpington.

Pens are now mated up for our Southern business and EGGS can be supplied from our WINNERS and the FINEST ORPINGTONS in the world for \$20 a setting, and from fine stock at \$10 a setting. Advice free. Inspection invited. Trains met. Cook's Roup and Worm Powder, and also Laying and Condition Powder for sale. The best that exists. Ornamental Land and Water Fowl for sale.

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THE INDUSTRIOUS HEN

Vol. 9

Knoxville, Tenn., January, 1913

(Whole No. 104) No. 8

Poultry Breeding At a Woman's College

By J. W. BEESON, A. M., LL.D., Meridian, Mississippi



HE breeding of choice, pedigreed poultry is becoming quite an industry in the South. The mild winters make housing a small item, and admits of spring conditions almost the year around, which is conducive to a liberal egg production.

This great possibility, together with his love for fancy poultry, encouraged the President of the Meridian Woman's

College of Meridian, Mississippi, to start a new venture for a Woman's College.

This is a select college for young ladies, patronized by a substantial and generally a well-to-do class of people from all parts of the United States, nearly all the states having contributed students to the school where such careful, Christian home training is given, with special stress laid on the old time proverbial Southern courtesies and gentle manners.

It is to this class of young women that the President of this Woman's College decided to start a model "Poultry Farm" as an object lesson to them, and at the time supply the college table constantly with fresh eggs and an occasional meal of poultry. The enterprise has for its double object that of education and of financial profit. It is our purpose to tell you how well the plan succeeded in both purposes; for, already the "Woman's College Poultry Farm" is becoming known all over the country as something unique and other colleges are beginning to undertake something similar and want to know how it was done.

We started with one dozen choice White Orpingtons, that were cared for by the college gardener's wife. This was a fancy flock, and we sold eggs for breeding purposes for from \$3.00 to \$5.00 a setting, and sold breeders the next winter for \$5.00 each and upward. We feed them from the scraps from the college boarding department and waste vegetables from the college truck farm (for we raise fresh vegetables the year around in our college gardens). We can spare enough milk from the college dairy to start the young ones off well. Having mild winters we can raise them the year around. The first year from one dozen hens we made \$500, including the stock we kept for next year's breeders.

We had outgrown the gardener's back yard; so we set

apart about six acres of the college truck farm located on the electric car line adjoining the college campus, where the college girls can visit it at will, and there we started our poultry farm. We decided to raise only fancy stock for breeding purposes and eat only the culls on the college tables. We were delighted with the White Orpington, both as a utility, all-purpose fowl, and as a fancy show bird. We liked it so well that we decided to add some fine pens of Black Orpingtons, and Buff Orpingtons. We bought some of the finest strains we could find in America and then imported several pens of White and Black Orpingtons directly from England.

We added S. C. White Leghorns to our "egg only" fowl, seeing that nearly all large egg farms in America use the S. C. White Leghorns. We purchased some of the finest

strains that could be found both as show birds and as layers. At a great cost we purchased some Madison Square Garden winner stock knowing that blood will tell.

Hearing such a great noise that was created about Indian Runner Ducks we investigated their merit. We were always prejudiced against ducks, but when we learned that every owner of Indian Runner Ducks was so enthusiastic over them we decided to try them. We were agreeably surprised at their great egg production, surpassing that of the best strains of eggs we ever tried. Therefore we added a large flock of each of the three varieties of Indian Runner: the English Standard, Penciled, Fawn and White; the

American Standard, solid Fawn and White; also the pure White. We are delighted with all three varieties, but we believe the pure White Runner will finally be the most popular.

The college erected a large breeding house 120 feet long with divisions and runs on both sides with a hallway for breeding, watering and gathering eggs. We erected several colony houses with a large yard for each. We erected a fine brooder house, with incubator cellar below. We purchased 20 incubators of different capacities ranging from 50 eggs for special pens to 508 egg capacity.

The first year we entered some of each of the kind we breed in four shows and won 153 prizes, including one grand cash prize offered by the Southern Railroad for the best display; the \$20 A. P. A. gold medal for best male bird in the show; silver cup for best of White Orpingtons;



Same Trophies Won at Two Shows by the Woman's College Poultry Farm, Meridian, Mississippi.



A View from the Top of a Long Breeding House of the Woman's College Poultry Farm, Meridian, Mississippi.

best pen of Black Orpingtons; silver cup for best Indian Runner Ducks; several other silver cups, gold leg band, and a handsome sum in cash prizes.

The gross amount for eight months of sales was \$5,800, besides supplying the college tables with an abundance of eggs and some poultry. Of course the cost of keeping the poultry farm must be deducted, but by using the by-products, such as waste from the college tables, truck farm and greenbone from the college slaughter house, the expense of keeping is quite reasonable in spite of high prices of feed. The profit will be sufficient to be quite a help to the college financially, besides being an object lesson to the several hundred young ladies who attend this college, also the young men of the Meridian Male College, which college is run by President M. A. Beeson, brother to the President of the Woman's College.

These two colleges run by two brothers, are located with adjoining campuses, and together have hundreds of choice young men and young women in them from many states, and the Woman's College Poultry Farm will be a great impetus to the poultry business, especially of the South. Already several who have attended these colleges have become enthusiastic about poultry; and while this plant is now in the second year at its present quarters, it has already fulfilled a great mission both to the college in a financial way, to the boarders in affording a better table fare, and to the young men and women and patrons of these colleges in arousing interest in the greatest American production, save possibly one. It is also fulfilling its mission to other colleges by showing them they can utilize the waste to advantage in the poultry farm and thus add to the income of the college.

The reader must not think it is all smooth sailing. We have had our losses and discouragements. The greatest drawback has been in finding a suitable person as manager. Few Southern people have studied poultry raising scientifically. It is a new enterprise in the South and the few who have studied it in college have not had experience to manage a large plant. They can raise a few chickens or ducks in the back yard, but that is quite a different proposition to raising fine breeding stock on a large scale. Managers from other sections are not familiar with the climatic conditions

at first. They have considerable losses while they get acquainted with conditions. Yet with all our losses Woman's College Poultry Farm is a paying investment. We believe it ought to be a part of all colleges.

If we can help any college or any individual in getting started in the poultry business, we shall be glad to do so, if a stamp is enclosed for reply. Any problems that we have solved we shall be glad to pass on to others.

Our Mr. F. A. Goodlin, traveling representative of the Industrious Hen, who returned home last month for the Christmas holidays, after a five months trip covering the South, reports a good business this season. He says that the South is realizing the need of raising better poultry; breeders are availing themselves of every opportunity to improve the stock. Mr. Goodlin predicts for 1913

a year of prosperity in both the commercial and fancy end of the poultry business, far surpassing previous years. Mr. Goodlin will leave soon on his Northern trip, and he will be glad to take orders for subscriptions, either new or renewal, and to talk advertising to you. Hunt him up and let him tell you of the merits of The Hen as an advertising medium.

House for Setting Hens

Any outbuilding or shed can be fitted up for this purpose. Place a row of nests around a wall, and provide vessels for feed and water in the center of the room. Also arrange a dust bath in front of a window where they can get the sunlight. When a hen becomes broody, transfer her to this building. If you hatch with hens, this is the most satisfactory plan. The laying hens are not interfering with the setters, breaking the eggs, etc. The setters cannot leave the nest and building and therefore do not stay away until the eggs become chilled, as is frequently the case.

"Shorts," according to Webster, is the "bran and coarse part of meal, in mixture." In some sections of the country, bran is known as "shorts," and in others, middlings bears that term.



Some of the Colony Houses of Woman's College Poultry Farm, Meridian, Mississippi.

Wonderful Life-Giving Properties of Oxygen

By MR. EUGENE W. HARRINGTON, Formerly Associate Editor
National Poultry Magazine



HE history of the world is replete with stirring accounts of the struggle which Truth has ever encountered in its conflict with the prejudices and theories of man.

Galileo, that ancient astronomer who first declared that the earth revolved upon its axis once in twenty-four hours, suffered the tortures of prison bars and starvation because he

dared to contradict the generally accepted theories of the clergy.

The general conflict between science and theology has occupied the minds of the most learned men during this, and the centuries which have preceded us, with the supremacy of Truth ever the objective point.

Through the process of time, however, mankind gradually comes to have a fairly accurate knowledge of fundamental principles at least, and is thereby enabled, through the exercise of his intelligence, to arrive at definite and stable conclusions.

The genius which has provided us with a knowledge of how best to live, that our healthful content and happiness may be best promoted, enables us through the exercise of a sound judgment, to apply that knowledge to our every-day vocations and to the general betterment of all things and conditions with which we come in contact.

It is not so many years ago that the poultry press of the country was of one voice in giving advice upon the subject of how best to succeed with poultry; and, without dissent, it was claimed that best results could only be secured by the construction of warm poultry houses, wherein during the cold winter months, summer conditions might be the most nearly approximated.

The older members of the poultry fraternity who read this article, will recall the disappointments of the damp death traps that resulted from following this advice. There was no system of ventilation suggested that would avoid the draughts, and it was a case either of draughts or dampness, both of which were unsurmountable barriers to the successful keeping of poultry.

Finally some one "who had been to Damascus and seen the light," demonstrated the wisdom of the fresh air, open front method as a solution of those vexatious problems, which had resulted from the building of the airtight poultry houses.

At first the theory of "fresh air" houses was met with ridicule and much skepticism; but, as experience began to break away the barriers of prejudice, and the light of Truth began to dispel the darkness of ignorance, the great army of poultry breeders began to understand why it was that the fresh air house brought success out of failure, and healthful conditions took the place of disease and disaster.

In the animal kingdom the processes by which life is maintained are not so intricate as the ordinary mind would presume. Simple and well settled are some of the principles pertaining to the maintenance of human and animal life, and, it is by the adoption of, and an adherence to, these simple principles only, that we can hope for success when we enter upon a vocation which deals with the production, growth and development of life, whether it be horses, cattle, sheep, poultry or other live stock.

In all animate creation, blood is the life-giving element. Health and strength can only exist where the quality of the blood is good. Weakness and disease thrive best where the quality of the blood is poor. Good blood is distinguished from poor blood by the possession of rich, red corpuscles as compared with a lack of those corpuscles in the blood, which is described as being poor or anaemic. The process by which nature provides the red blood found in the animal possessing vigor and health is by its circulating through the lungs of the animal, and there coming in contact with the fresh air or oxygen which the animal takes into the lungs through the process of respiration. If the lung capacity is not filled constantly with the oxygen necessary to thoroughly aeriate the blood in its circulation, then, and in that event, the blood becomes weakened in its quality, sluggish in its action, and the

effect is at once apparent in the lessened vitality of the individual or animal, as the case may be.

And so, when the fresh air, open front poultry house was suggested and put into operation, we found a pronounced improvement in the general health, vigor and vitality of poultry kept therein, because the daily exercise for food was taken in the air, that was heavily laden with oxygen, thereby aiding, through the principles of combustion, in a healthful assimilation of the food consumed and a resultant healthful growth of tissue, fiber and nerve force.

There is a subject which is occupying the minds of the poultry breeding public today, and to an extent it never has before and one which is just as sure to be solved, as was the problem of healthful incubation and brooding of young chicks. I believe the experiences of the present season have been such as to establish to the satisfaction of well informed poultrymen the fact that we have not as yet fully solved the problem of artificial incubation.

Breeders who are able to secure only forty, fifty and sixty per cent hatches from eggs that are shown to be well fertilized, and in which development is shown to have gone on uninterruptedly up to the very day when the chicks should be coming out, have been asking themselves the question, why? This inquiry, I believe, is a proper one, and one that must be answered satisfactorily before artificial incubation can be spoken of, and accepted as a problem fully solved.

As I write these words, and in the hope of aiding in an inquiry of so much importance, there is before my mind a picture of the egg chamber of the incubators in general use today. I am thinking also, of how we have provided our breeding, and laying stock, with fresh air laden with that life-giving property known as oxygen. I have pictured their rich, red combs, bright eyes, their activity and healthfulness, and all because of the fact that they have been provided with this life-giving property in quantities and under conditions that have produced health, vigor and vitality. They have furnished us with strongly fertilized eggs which have been placed in the incubator, together with our fondest hopes for splendid results. These eggs



Prize Winning Young Indian Runner Drake,
Charles Frazier, Owner, Marlton, N. J.

have been watched, cared for and attended, with a strict observance of the rules and instructions prescribed by the makers of the incubators to which they have been entrusted. We have found the fertility to be strong, the embryo developing quickly, and we have noted the processes of developing life up to the sixteenth, seventeenth and eighteenth days of the hatch. Every egg in the machine is filled with a mature chick up to that time. We look for an exceedingly large hatch. The eggs begin to pip on the eighteenth, nineteenth and twentieth days. The little bills begin to appear, and when at the expiration of the twenty-second day we find that not more than sixty per cent of live chicks appear, is it to be wondered at that we ask the question, why? Why was it that the other forty per cent of those mature chicks, many of which had pipped the shells, were unable to extricate themselves and died?

I again find myself considering a mind picture of that egg chamber, two feet square and six or eight inches in depth, containing less than four cubic feet of air space. I note the little chicks who have braved the ordeal, with their faces to the light, panting away, scarcely able to breathe, and throwing out so plainly the warning signal of distress. As I think of how one hundred and twenty chicks have been confined in that space in which all ventilators have been closed, breathing over, and over again, the carbon dioxide which has been thrown off by each of these little fellows for the period covered particularly by the eighteenth, nineteenth, twentieth and twenty-first days of incubation, without a proper supply of oxygen with which to aeriate the blood circulation, and thereby provide the strength necessary to aid nature in her processes of birth, the suggestion comes to my mind at once, "how was it possible for any of these chicks to hatch and live?"

And so I go over again in my mind the wonderful life-giving properties of oxygen. I recall how medical science resorts to its use in pneumonia, and how it resuscitates, and brings back to life, those who have stood in the Valley of Death. I begin to feel that perhaps we have blundered; that we have been stumbling along in the darkness, and that by closing the ventilators, we have denied to our little chicks in the incubator the very life-

giving property that is so essential for their successful and healthful advent into the world.

If the fresh air, open front house was the successful solution of providing healthful, vigorous breeding stock; if aeration of the blood through the supplying of oxygen spells health to mature fowls kept in large, roomy quarters, how can we expect healthful conditions in little chicks that are compelled to spend the first four or five days of their lives in a compartment heated to one hundred and three degrees, with nothing upon which to build but the carbon dioxide gases thrown off during the process of incubation? The N. Y. State College of Agriculture in a recent Bulletin says, "Oxygen is essential to normal development, the amount increasing with the growth of the embryo. The eggs give off large quantities of carbon dioxide and this increases as the embryo grows."

Oxygen means life; and I believe the time is not far distant, when its value and beneficial effect as a life-giving property will be recognized to such an extent as to demand the introduction of some appliance whereby it may be supplied to little chicks during the last three days of incubation.

To my mind this is one of the most important problems confronting the poultrymen of the present day; and, it is only by something being done along this particular line that we can ever hope for that success in incubation which is essential to success in the poultry business as a general proposition. Successful incubation does not mean sixty per cent live chicks and forty per cent dead in the shell. It means that if on the eighteenth day there are one hundred and twenty fully developed chicks in the egg chamber, that on the twenty-third day there should be one hundred and twenty live, healthful, vigorous chicks in the nursery. Oxygen is necessary to the human system in order to provide health. It is an essential requirement for the breeding stock if it is to be healthful, vigorous and strong. Oxygen is ten times more important to the young chick just coming into the world than to mature fowls, and if we are ever to have successful incubation established as a fact, I believe it must come sooner or later along the lines of supplying a sufficient quantity of oxygen to little chicks during the last three or four days of incubation.

Methods of Keeping Eggs for Hatching as Affecting Vitality

By PROF. J. E. RICE, Cornell University

THERE are many ways of losing constitutional vigor, and one or two of these ways are so simple and so commonly misunderstood that we ought not to lose the opportunity of just saying a word or two on how constitutional vigor may be lost in eggs by the mere method of keeping them for hatching. We have conducted rather extensive experiments in the matter of testing the loss in constitutional vigor of eggs due to the method of keeping. The first one that I will allude to is in regard to the time to keep eggs for hatching. Fifty eggs were placed in a certain room at the average temperature of sixty-five degrees, and each week thereafter another bunch of fifty eggs were placed in this room and given similar treatment until we had eggs that were kept thirty-five days, twenty-eight days, twenty-one days, fourteen days and seven days and one day, and then these eggs were all placed in the same incubator, and the following results were noted in regard to their fertility and hatching qualities. The eggs had been taken from the same or similar pens of hens, so that all conditions would be alike. In the eggs kept for thirty-five days we found eight per cent fertility; twenty-eight days, nineteen per cent; twenty-one days, fifty-two per cent; fourteen days, seventy-eight per cent; seven days, eighty per cent; one day, eighty-six per cent. Coming down to the actual hatching of these eggs we found for each period the following number of chickens were hatched: Six, ten, twelve, thirty-two, thirty-six, seventy-four per cent, respectively, according to the time these eggs were kept. These eggs, as you will see, were kept at a temperature that was unfavorable, and yet few persons realize what the loss may be in keeping eggs for hatching for two or three weeks or more in a temperature of sixty-five degrees, which is five degrees colder than the ordinary living room.

In the next experiment we kept eggs for hatching fourteen days under three different temperature conditions.

The first bunch of eggs were kept in a temperature that ranged from seventy-three to fifty-three degrees, at an average of sixty-five degrees Fahrenheit. The next bunch was kept in a cold storage room, fifty-four to forty-five degrees, with an average temperature of fifty degrees Fahrenheit, and the others were kept in a very warm room, where there was a furnace, with an average temperature of eighty degrees. These eggs were all turned each day. At the end of two weeks all the eggs were placed in the same incubator, with the result that the eggs kept in living rooms for two weeks, at an average temperature of sixty-five degrees, had eighty-eight per cent fertility, and those kept in cold storage had ninety per cent fertility, and those kept in warm, dry room had twenty-four per cent fertility. In other words, the eggs that were originally as good as the others, by being kept in a warm room, the germ was killed before it developed so it could be recognized as ever having been fertile. The actual hatching power in this instance was fifty-two per cent in the living room, while in the cold storage we hatched seventy-six per cent and in the furnace room we hatched no chickens at all, showing how life that was once in existence had disappeared gradually until there was no hatching power whatever. The natural conclusion from this experiment is that we ought to keep our eggs in a temperature as low as fifty degrees, or perhaps lower, at least down to forty-five degrees, if we can. The best place to keep the eggs is down on the bottom of the cellar, not on a shelf or table, but in the coldest place possible, without danger of freezing. These eggs ought to be covered with something to prevent evaporation and turned frequently.

In 100 parts of the white of an egg, about 84 per cent is water, 12½ per cent is albumin, one per cent mineral, and 2½ per cent sugar, etc.

The Proper Poultry Feeds and Feeding

By J. A. DINWIDDIE, New Market, Tennessee



POULTRY feeds and feeding is a great hobby with me, for I find so much said today about pure breeds and show-room talk that I want to continually harp on the feed problem. On most farms today we find good poultry, at least more improvement, I think, in breeds than in their environments and feeding. Growth in chickens as well as in live stock of any kind is a natural

process, and I have found nothing that will take the place of food in producing this, and this being true, and wishing to develop, say a fine lot of winter layers for this winter's egg crop, I find I must know something of feeds—what feed will produce growth the quickest. Or, if I already have these hens, and want eggs, I must know what to feed in order to obtain them the quickest way and in the greatest quantities. Winter eggs are what we want most, as they bring the highest market price.

Let us consider some feeds and grains, such as will get the desired results. Wheat—The best one-poultry food on earth, so far as is known; nearest a balanced ration; is not a complete poultry food to produce eggs. Corn—One of the grains well liked by most fowls, is not a balanced ration, and will not produce eggs unless mixed with other egg-producing food, yet on most farms in the United States corn is the principal poultry food. Oats—Not relished by well-fed hens, but a good food, almost in like proportion to wheat as to food nutriment, but when fed alone will not produce eggs. With these three mentioned grains, when mixed, we can hardly get a balanced ration to produce eggs, but considering that these three grains are the most accessible on farms, let us come as near as is possible in making up a ration for our birds out of these grains and by-products, using, say 10 per cent animal meal in the form of commercial beef scraps.

For grain ration, use a mixture of 60 pounds of good wheat, 16 pounds of oats and 24 pounds of corn. As ground ration, use 40 pounds wheat bran, 40 pounds of beef scraps, and 20 pounds of alfalfa meal. Feed this in a dry condition, and place it in hoppers, having it before birds at all times, and at or before the time of preparing this ground food, put in a few pounds of salt and lime, unless you keep lime constantly before the birds. Remember that in 150 eggs, according to chemical analysis, there is as much as 5 pounds of lime; of course, the greater per cent of this is in the shell.

I have made a study of feeding for eggs, being a poultry farmer, and have stuck to these feeds as mentioned, and fed in about this proportion, and have found it will produce eggs.

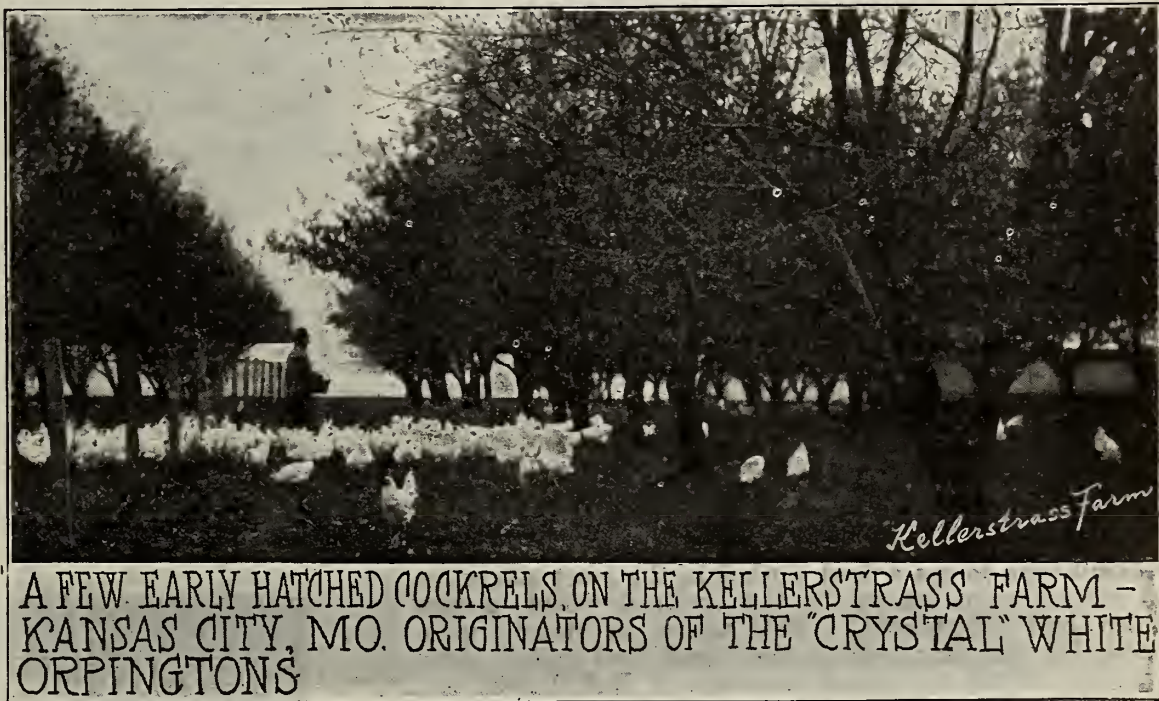
There are a great many commercial poultry feeds on the market today, a great many of which are good, and a great many are not. One thing I find, that there is too much inferior grain used. Always bear in mind that a hen makes an egg as a cow makes milk, according to the nutriment she gets out of feeds that she eats and digests. One pound of good wheat will furnish as much feeding nutriment as three pounds of wheat screenings. Now, if this particular hen could digest and assimilate the three pounds of wheat screenings as quickly as she could one pound of good wheat, perhaps it would answer the purpose as well; but she cannot, and we want eggs fast.

So be careful as to feeding good grains, and notice commercial feeds as to foreign seed, weed seeds, etc. And we don't want to buy feeds containing grit. We pay, say, two and one-half to three cents per pound for this feed, and we don't want to pay this for grit, as it weighs too much. Ground limestone, oyster shells, etc., will be cheaper and answer the purpose fully as well.

I find a great many get the chicken fever at poultry shows, and are perfectly willing to pay a good price for birds, and they seem to think that all that is necessary is to get into the poultry business, yet how to purchase stock is the least part to know about. Of course, we must have good birds, but on the other hand, we must not fail in the knowledge of feeds and natural habits and likings of our birds.

I visited a plant a few days ago, where I knew that the parties bought eggs from a noted breeder, and the environments under which these little chicks had to grow and the feed that was given them defeated nature to begin with, which was all wrong. Now this is what makes me want to harp so much on feeds and feeding.

The American Standard of Perfection teaches us what a bird has to be to be a pure-bred bird, and so on, and this we need to know. But if we intend to make money out of chickens on our farms, speaking from a commercial point



A FEW EARLY HATCHED COCKRELS, ON THE KELLERSTRASS FARM - KANSAS CITY, MO. ORIGINATORS OF THE "CRYSTAL" WHITE ORPINGTONS

of view, we must study feeds as to which make growth, which make eggs, and how to proportion same for best results; then we will place poultry on a better paying basis.

One of the hardest things to control in poultry raising is lice. Every chick hatched by a hen is "stocked up" with them from the start. Incubators will, in the long run, hatch as many and as strong chicks as the average good sitter and does not stock them with lice. As incubators can be bought at very reasonable prices, it is policy to keep biddy at her best job, supplying the eggs, and let the "wooden hen" do the rest. Then a good brooder, if properly looked after, will care for the young brood better, and the lice will not trouble, provided you do not let older fowls run with them.

We are in receipt of a copy of a new book entitled "6,000 Laying Hens on One Acre, Crane's System," published by the "O. K." Poultry Journal, Mounds, Okla. The book sells for \$1.00, and we consider it well worth the money, as it treats numerous subjects of vital interest to poultrymen. The book is copiously illustrated, showing various plans, and designs for everything connected with a modern poultry plant.

Why Partial to Buff Plymouth Rocks?

By J. C. CLIPP, Saultillo, Indiana



IN a majority of instances when you see or hear a breeder "blowing" about his favorite breed, he does so through a selfish motive, not considering the real facts regarding the particular breed he is catering to, but not so with us in this brief mentioning. The question is being asked repeatedly "what is the best breed of fowls?" This question was asked the writer recently by an Industrious Hen reader, and my reply was, no such thing as "best fowls."

The man behind the variety is responsible to a large degree for merits of the variety he represents. Last week at the Marion, Ind., show we found a large class of Dark Cornish, a variety that has been somewhat in the background for years, but today they are coming to the front again rapidly, simply because such fanciers as those exhibiting at these shows are proving to the people that such fowls have merit behind them if you will give them an opportunity to prove it. These birds were owned and exhibited by a firm that is making good. They sold some birds, I understood, at a long price, proving that others are admirers of this variety as well as the firm that was exhibiting them. These people bred the Dark Cornish simply because they admire them; we breed the Buff Plymouth Rocks, simply because we admire them. Every variety has some redeeming features about them. The Dark Cornish I presume outclass all others as a table fowl—no fowl has ever been produced that can compete with them when it comes to serving a fine high-class roast. But when you wish to exhibit a fine, attractive fowl, you must then take off your hat to the Buff Plymouth Rocks; when you wish to procure a large number of eggs, during the year, then you must take off your hat to the Buff Plymouth Rocks; when you wish to grow a general purpose fowl you must then take off your hat to the Buff Plymouth Rocks. That's why the writer admires them above all other varieties. No fowl, to our knowledge, can compete with the Buff Plymouth Rocks for beauty, for heavy egg production and for quick maturity. The Rhode Island Reds are very attractive, good layers and easily handled, but they are very hard to breed true to color, much harder than the Buff Plymouth Rocks, making them not so admirable with the amateurs. The Buff Plymouth Rocks are becoming more popular every year simply because they are proving themselves to be one of the greatest general purpose fowls grown. What is more beautiful than to see a fowl clothed in the most attractive and richest color known to the civilized world—a rich Golden Buff throughout? But, as we previously mentioned, it's the man behind the breed that makes them valuable. There are many breeders of Buff Rocks that have a large flock of birds that are simply no better than mongrels, just because he does not put his best efforts in them to make them valuable. For a fowl to be valuable in this day, it must possess a heavy laying habit; it must be of Standard size, it must be true to color and easily matured. All these qualities are found in the Buff Plymouth Rocks where they are bred intelligently. There are other varieties just as good as the Buff Plymouth Rocks. We don't make the broad assertion of saying "Best in the World," for I am confident there are others just as good, but I am certain there are many varieties not so good as the Buff Plymouth Rocks; for that reason we admire the Buff Plymouth Rocks because they have proven themselves to be as good as the best and that's sufficient to warrant any breeder to pin his faith to this variety. If you have the impression that your varieties are the best in the world, you are off, and going the broad road. There are many good breeds that are making their owner money. The writer has explained why he admires the Buff Plymouth Rocks more than all others, and if you are a fancier of the true blue, why not give us some of your experiences; it will help the industry. There is nothing in print that interests real fanciers more than to read what others have to say relative to their favorite breeds. Those "experiences testified in meeting" prove to be a stimulant to the cause and it will be the means of many beginners making a decision as to what variety they would prefer to breed. Last week while judging one of the Northern

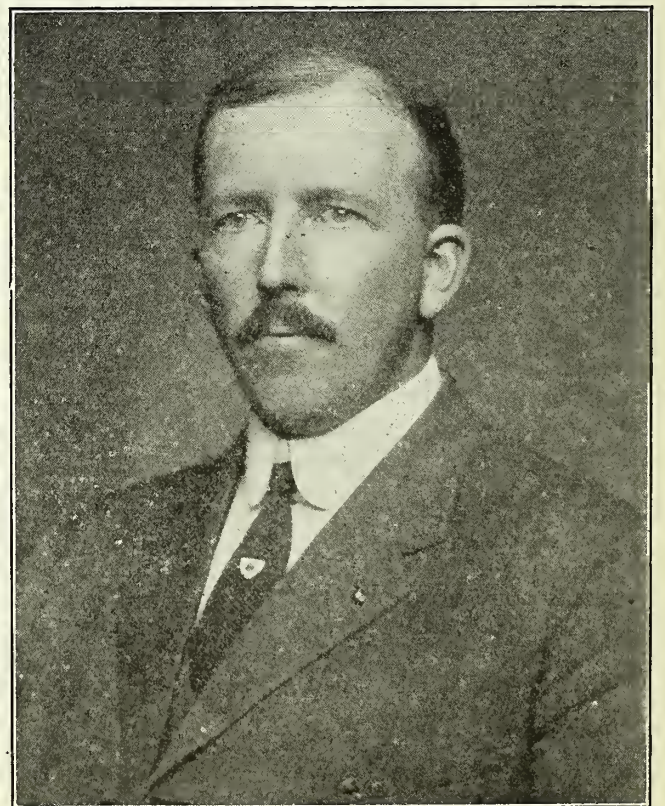
shows, many fanciers were all gathered around in a huddle near the Secretary's desk, after supper, giving their experiences as fanciers. All you old breeders, have been in this sort of a meeting many times and you know how interesting it is. So, I am sure it would be of great interest to every lover of the fancy to have many letters appear in The Hen relative to your manner of doing things, what variety you breed, and why; what you feed, and how you manage things in general. I want to tell you, the more of this sort of stuff the editor can print, the more and better I like the paper. Now, as to the best variety, you are responsible for that, yourself. Select the variety you fancy most and push it to the front, by breeding quality in them. You can do this by purchasing the best blood lines possible. Breed them as close to Standard requirements as possible and show them in the best company in the leading shows, report your winnings in the advertising columns and I will stake my life on it, you will have a hard time producing enough stock and eggs to fill your orders. The time has arrived when good quality sells—you can't keep good birds if you place a price on them. A Bronze Turkey breeder here in this state has used exactly the same plan as we have described and today he can not supply half the demand for turkeys. It's the same story, with any variety you breed. Breed quality in them and don't be a "tender-foot" as many are. Last week I visited the yards of a Buff Wyandotte breeder, and no better birds grow, but he is not using printer's ink in the least, not showing them, and says he don't think they are popular.

Mr. Reade and His Barred Rocks

FOUR years ago, after careful study, I set out to produce a strain of Barred Rocks that would conform to certain ideals then in mind.

This was a serious undertaking, not a back-yard venture, nor a hobby taken up as a pastime, but a serious determination to produce in the South a strain of Barred Plymouth Rocks that would equal in quality and egg production any strain to be found anywhere in the North. For years I had seen large sums of money sent North for stock and eggs and I had seen the class of stock that this money bought, and I was fully convinced that as good and better stock could be produced in the South for very much less money and still allow the breeder a fair profit.

I believed, and yet believe, that the South offers the most favorable conditions of any part of the country for the breeding of fine stock, and that the reason why it had



L. H. Reade, Highland Park, Richmond, Virginia.

not taken its proper place in this great industry was due partly to a general disposition to look at "chicken raising" as only fit for women and children and partly to a lack of appreciation that the production of high quality in thoroughbred is as much a science as the production of high quality in cattle or horses, and that as great financial reward awaits the man who succeeds in producing high-class chickens as the man who breeds fine cattle or horses.

With this in mind, and with no misconception of the task I had undertaken, I set out to produce a strain of Barred Plymouth Rocks second to none, realizing fully that success only comes to him who keeps one end always in view.

From time to time, I exhibited a bird or two with success, and last year I decided that my birds were about ready to take their place in the South, and my record of ninety-one ribbons and specials (twenty-eight firsts and twenty-three seconds) in twelve large Southern shows bears out my judgment.

This year, so far, in such shows as the Virginia State Fair, North Carolina State Fair, Maryland State Fair, etc., my "Blue-Bars" won ten firsts, nine seconds. Best display three times together with many others ribbons, specials,

The quality of my young stock now maturing confirms my belief that I have as good birds as there are in the South.

I do not depend upon haphazard methods, but a full set of books and records are kept as to all business transactions and matings.

And finally I believe that there is only one policy possible to him who would succeed in any business, and especially in a business that requires the people's continued confidence, and that policy is Honesty. A satisfied customer is the best advertisement of any business.—L. H. Reade, Highland Park, Richmond, Va.

Mr. Reade is a member of the Executive Board of the Virginia Branch of the American Poultry Association, a member of the Virginia Poultry Association, Virginia State Secretary of American Barred Plymouth Rock Club, member of the committee of three appointed by the Virginia Board of Agriculture to investigate and gather statistics in regard to poultry conditions in Virginia, and special poultry writer for the "Southern Planter." See his advertisement elsewhere in this issue.

Structure of the Egg--Natural and Artificial Hatching

By DR. A. A. BRIGHAM, Brookings, South Dakota



WILL first dwell on the structure of the egg and just how the little chick starts. In the first place, we have the white and the yolk of the egg, but neither the white or yolk furnishes the chicken. If you place an egg on its side and break it open, you notice that the yolk comes near the shell and you observe a little white spot about one-eighth of an inch in diameter on the yolk. That

little white spot contains the germ of life in the egg. All else furnishes food for the development of the chick.

As you move the egg slightly to one side before an egg tester, you notice that the yolk moves. That comes out more conspicuously after the egg has been under the influence of incubation for some time. Turn a white-shelled egg sidewise before an egg tester and you will see that the yolk of the egg moves around when at rest. It always floats on top, because it is the lightest part.

That little white spot contains the germ of the future chick. Place an egg under a hen for twenty-four hours and a wonderful change will take place; the little white spot develops into a number of cells. One cell has divided into two and two have again divided, and so on until we have hundreds of cells formed. Every part of the chicken is made up of these cells. They are compressed and elongated into bone, brain and the beginning of the feathers. If after twenty-four hours you hold the egg up before the light you will notice that there is a rosy circle about the size of a dime at the top of the yolk. The rosy tint is due to the blood vessels formed there. If you look again at the egg after another twenty-four hours you will notice that the circle has increased to the size of a quarter of a dollar. By the end of the third day it will have increased to the size of a half dollar, and so on, until it completely surrounds the yolk. That system of blood vessels is for the purpose of gathering food for the chick. By the end of the fifth day, if you hold up a good, fertile egg before a bright light, you will find that you have a network of veins almost scarlet in tint, and in the center of this network of veins is a clear spot, within which is our embryo chick. You will notice that it looks like a little grub. At one end there is a black spot; this is the eye, perfectly formed, in five days. It is a perfect lens. Another series of veins start out about the fourth day and surround the albumen of the egg; this is for the purpose of gathering food and also to take the place of the lungs, which are not yet formed.

By the seventh day the little fellow becomes very vigorous and active, and instead of remaining quiet, he dives about. He is in a swimming bag. The thinnest albumen surrounds the embryo. The reason he is kept in this bag is that he may not get too much air through the porous shell. By the eleventh day the chick is complete in all its parts. Even the feathers and toes and nails have begun to be formed. Thus we see that in eleven days a miracle, as it were, has been performed in a common hen's egg.

Eggs are not laid simply to be gulped down by

humans. There never was an egg laid for that purpose, but every egg that a hen has laid was produced because she desired to propagate her own kind.

Most of us, when we start in the business, are not satisfied to raise chickens by the natural method. Many of us want to keep the hens laying all the time, and hatch them in other ways. The natural consequence is that we get incubators.

Natural Hatching.

In the springtime select a room where you can have the hens altogether, get rid of the vermin, place fresh straw in the nests and have everything perfectly clean. Get a water fountain and orange boxes for nests. Set as many hens at one time as you can. Let them out every morning for a half hour and see that they go back on the nests. Nail narrow slats up before the nests and you can have each hen under perfect control. This may be done systematically, carefully and successfully.

Artificial Hatching.

You ask me what is the best incubator. I do not know. There are many good and many poor machines. We have no perfect incubator yet. There are three things to look out for in choosing an incubator. Select one that has been successful in your locality, one that is made of good material. Do not get one that is made of wood varnished over for selling, and not for hatching chickens. Get a good incubator on guaranty or trial. Don't pay for the machine until you have tested it. Place it on a level and get the lamp in the right place. Use good oil. Good oil will not clog the wick or form gases. Start the lamp and get the temperature up to one hundred and two degrees. Get several thermometers—the ten-cent ones will do. Test them, and then place them at various places on the egg tray. Sometimes there will be a variation of several degrees from the front to the back. If you find that on the level there is a degree difference, raise the machine on the colder side, and this will help adjust the temperature. I have sometimes found eight degrees difference from the front to the back on the level of the egg tray.

When you have placed the eggs on the tray, see that they are moved around from day to day, so as to average the temperature, especially during the first ten days or two weeks. First, the flame should be turned out for a half hour and the eggs placed on the tray, then light the lamp and let the incubator gradually heat up. The temperature should be one hundred and one degrees the first week, one hundred and two the second and one hundred and three the third week. This means the temperature at the level of the tops of the eggs, the temperature nearest the little white spot. If I run the temperature up to one hundred and three degrees, one hundred and four degrees, one hundred and five degrees, the first week, then something is liable to break, and that is a blood vessel. When the blood vessel is weakened by too rapid a growth, its walls cannot stand the pressure of blood, a hemorrhage results, and the blood goes to the encircling vein and causes

a blood ring. When you hold up the egg to the light of the egg tester you see the blood ring. The chick is dead and incubation of that egg is at an end. For the first week keep the temperature down to where the old hen would keep it, avoid the danger of a hemorrhage. Too much air will also tend to produce a hemorrhage. There is danger in rushing too much hot air through the incubator, for the albumen evaporates through the porous shell of the egg before the little chick can use it. Lack of moisture in the air will also tend to produce the blood ring. If we draw moisture out of the egg by evaporation, we are drawing water out of the swimming tank in which the little fellow lives somewhat like a fish.

There are three conditions to look out for. First, to keep the temperature within reasonable limits. Second, avoid excessive ventilation and lack of moisture in the air chamber the first ten days. Third, don't put moisture in the egg chamber the last week. But some incubator manufacturers say you should not put moisture in the machine until the last week, but this is contrary to reason. The reason for keeping the air in the incubator moist for the first two weeks is to prevent the bursting of blood vessels. The blood vessels next to the inner lining of the eggs help to take the place of lungs. We can raise the temperature a little the second week.

In eleven days the chick is perfectly formed; by this time there comes a great change, for after the thirteenth day the swimming tank is dispensed with and most of the albumen which it contained has been used. The water in the egg begins to evaporate faster and the air cell increases in size. From the fourteenth to the nineteenth day increase the temperature to one hundred and three degrees. Animal heat begins to develop. Increase the ventilation also. The blood is circulating through the chick and the little heart is pulsating. Think of the change from one cell to a perfect chick in nineteen days. In the last week we do not use moisture in the incubator. When it comes to hatching, raise the temperature to one hundred and four degrees and put extra moisture in the egg chamber by means of wet sponges if the air is dry.

And now the little chick's lungs get into operation; if you hold the egg up to your ear you can hear a little peep. He must have air, but he must get out and get out quickly or there won't be air enough. He is provided with a little instrument, a regular little ice plow on the top of his bill, for breaking through the shell. He works and works until he has made a little hole in the shell through which he breathes. The egg is then said to be "pipped." Then he works his head backwards and strains to burst the shell. Sometimes the shell breaks, but if it does not, he works away all around the egg. Sometimes he is held by strings of the inner lining and cannot get out. If you place a wet sponge in the egg chamber and let the moisture soften the inner shell, he will be able to break through. When the egg is open he comes out all slimy and wet, the ugliest

little thing you ever saw. However, in fifteen minutes he is dry and fluffy and looking about with bright little eyes. If you tap on the glass door of the egg chamber with your jackknife he will come toward you.

Leave the little chicks in the incubator for twenty-four hours. I like to have chicks hatch on the twentieth morning. If they hang on for two to three days you have not kept the average temperature high enough.

Artificial Brooding.

While the chicks are hatching, get the brooder ready. In starting the brooder light it up a day or two before you want to use it. It will be more comfortable for the chicks and the poultryman, too, if the brooder is in a house or a barn or shed, out of the rain and snow. All brooders have a small exercising place. The floor of this place should be covered with an inch or two of sandy loam. If you want to keep your brooders nice and clean place papers on the floor and the sand over them, and put an inch of chaff on the sand. You should also have a water fountain into which no straw and dirt can be scattered. You can have a little feed hopper and get the chicks accustomed to the hopper system of feeding.

If you have to take the little chickens any distance from the incubator to the brooder, take a market basket, line with flannel, place the little chickens carefully in it and cover them up. Carry them quickly to the brooder. You should have the temperature of the brooder at ninety degrees, two and one-half inches above the floor, the height of a little chicken.

When you place the little chickens under the hover they will be quiet for a while, but will soon become inquisitive, and you will want to feed them. Do not feed them for two days, or they may get digestive troubles. They do not need food for seventy-two hours, or certainly for forty-eight hours, but if you are tender-hearted and must feed them, do not do so for at least twenty-four hours, because those little chicks are provided by nature each with a lunch basket. Just before the chicken leaves the egg, he draws in the yolk, which provides food enough for almost a whole week.

The little chicks come out in the sunshine and enjoy it, but when a cloud comes up they do not know where to go. The hover doesn't cluck; you can't make it cluck. The biggest, brightest chicks crowd together and pile up. The others crowd around them and the ones beneath are suffocated. The hand of the mother would have saved these little orphans. If you push them back into the hover half a dozen times they will learn to go there themselves.

Keep the chicks out of the brooder as much as you can after the first day. It is nice to have the brooder in the house, but if you must have it out of doors, a good plan is to have a yard covered by a hotbed sash, connected with the brooder.

To Prepare Sales and Breeding Pens and Make Hens Lay

By E. G. WARDIN, Charlotte, North Carolina



HERE the premises will permit, it should be the object of every raiser of poultry to keep the fowls intended for various purposes separated, and to train and feed them for individual requirements. In this connection there is nothing more serviceable about a poultry yard than a sale pen or house, in which should be kept and fed all fowls intended for market. There is, of course,

a difference between breeders and table fowls, but there is no material difference in the preparation of them for prospective buyers, and it is an easy matter to make separate apartments in the sale pen or house for the different kinds of birds.

The stock that is to be sold should be separated from that which is to be kept for breeding purposes as soon as it is large enough for intelligent selection to be made. It should then be placed in a house or pen set apart for the kind of stock and thoroughly prepared to meet the requirements for which it is intended. In this way not only can sales be more quickly and easily made, but mistakes and misunderstandings are practically impossible. The birds can be graded as to merit and price, and offered for sale in that condition, for the poultryman who indiscrim-

inately mixes his stock, can never expect the best results. A sale pen will be found very useful in the disposition of the surplus stock, and there is no time better than the present for preparing one.

It is high time that we were selecting the birds for our breeding pens for the coming season. In making this selection there are several very important things to be considered. The first and by far the most important is the choosing of the male bird. One should be secured as near to the requirements of the standard as possible. I would rather have him a pound or more under weight, with the other points near to perfection, than to be up on weight with a beefy comb or stilty legs. The male can be relied on to fix the fancy points if mated to good large hens that are fully up on weight or a pound over, if this extra pound is not fat.

Never use pullets laying their first litter for breeding. Well grown pullets that lay a good sized egg in their second stage are very good, but hens two and three years old, will give the strongest chicks when they are mated to a large vigorous cockerel not less than eight months old, or a fine yearling cock.

Never use more than ten or twelve females to a male, and here in the South, where we have our yards mated six or eight months in the year, it is better to have two

male birds as near alike as possible, full brothers if they can be had, and alternate every few days—keeping the one not in use in a cool, roomy coop or room, out of sight of the hens entirely. By so doing the male birds will keep in flesh and be much more vigorous than if allowed to run with the hens continuously. The foregoing applies to all breeds of the American class. The Mediterranean class, which are much more active and prolific, can be allowed twenty females in a yard.

The mating of the different breeds is a subject which would require more space than can be spared here. We would advise beginners to purchase a specialty book on the particular breed or breeds they are keeping and follow the directions found therein.

Hens confined to a small run can be made to lay as many eggs as though they were at large, providing they are well cared for and receive such food as is necessary to produce eggs.

Hens can be forced to lay, but not by simply throwing to them a steady ration of whole grain. They must neces-

sarily have a mash feed as well as grain. The mash should consist of different kinds of ground grain. The same should be made wet into mash with thick milk, (skim milk is good and easily obtained). Fine ground bone should be mixed with their mash. This should be fed in the evening. In the morning scatter their grain in litter. The litter should be about six inches deep and clean as possible. This gives them exercise and prevents them from becoming lazy and fat.

Fowls usually crave green food, and if possible to obtain it, we advise feeding it once a day, at noon. Keep plenty of grit, shell and charcoal before them all the time to grind their feed, help digestion and make egg shells. A flock of chickens kept to lay for market purposes should be forced to lay the year around.

A flock of a hundred and thirty hens should lay at an average of twelve dozen eggs each per year. The cost of feeding hens is about \$1.00 per year where everything is bought, but on a farm it does not cost nearly so much.

Wonderful Progress of the Poultry Industry in the South

By E. H. DePOY, Associate Editor



HE South has made wonderful progress in the poultry industry during the past few years, and yet we may truly say that the poultry industry in the South is in its infancy. Despite this fact, however, the poultry products of the South, and the United States as well, exceed the value of most of the cereals produced on American farms, and the precious metals delved from many of

her richest mines.

Truly, the American hen is coming into her own. With more practical education along the line of poultry work, the value of the poultry industry will be more than doubled within the next few years. Missouri alone now produces more than forty million dollars worth of poultry and eggs each year; Tennessee produces more than fifteen millions of dollars worth each year, and many Southern States are doing as well, or better, than Tennessee. These figures serve to show the wonderful opportunities awaiting the farmers and poultrymen of the South if they will but grasp the fortunes that are in store for them.

It has been stated that the South is the logical field for the production of poultry, but we wish to go further and state that we see no reason why three-fourths of the poultry and eggs consumed in the United States should not be produced in the Southern States. Nature has endowed the South with every element that conduces to the successful and profitable production of poultry. The short, mild winters, the perennial sunshine, and refreshing showers, make it possible to produce green food the year round and the fowls can gather it themselves, thus reducing the labor of caring for them. The soil is peculiarly adapted to the raising of poultry in nearly every section of the South, and chickens may be hatched and reared every month in the year.

The development of the industry during the past few years has been little short of marvelous. Farmers are awakening to the possibilities thus offered, and an industry that was once considered a waste of time is now receiving thoughtful consideration from those who are best prepared to engage profitably in the poultry business. There is no place where poultry can be raised to better advantage than on the farm. Here they have full range, gathering up the different kinds of grain around the feed lots that would otherwise go to waste, and converting it into nutritious food, unequalled in the variety of tempting ways in which it can be prepared and served.

Poultry and farming, poultry and truck growing, poultry and fruit growing are companion industries. Poultry may be profitably produced on any farm, large or small. Poultry is at home on the Southern farm. To the progressive farmer "the lay of the hen" exceeds the melody of the mocking bird, and adds millions of dollars annually to his income. Surely there is no place where the opportunity for raising strong, healthy poultry, at a minimum cost, is so great as on the Southern farm. "It is true that by much care, constant work and intelligent feeding and management," says one of the leading Southern poultry writers, "good poultry is produced on the small

lots in or near the towns, but it requires more intelligence and poultry knowledge to raise birds under such conditions than it does to accomplish the same results on the farm."

Not only has the quantity of the poultry products in the South been increased, during the past few years, but the quality has shown a corresponding increase. The latter, we believe, is due to the fact that poultry raisers all over the South are discarding the mongrel and breeding pure bred stock, and improving in every way possible the quality of the poultry raised on the farm as well as that raised purely for fancy. This has resulted in advanced prices to the farmer for the products of his flock. A few years ago the eggs produced in the South were mostly of low grade, went to the poorer markets and were held for home consumption. Today a large per cent of the eggs produced in the South, grade as number one, and bring the highest prices in the leading markets. Commission men are paying higher prices to the poultryman and farmer who bring eggs of even size and color, and many breeders sell direct to large consumers at a handsome premium over prevailing market prices.

Many associations have been formed, and farmers and fanciers have worked together for the advancement of the industry. This community of interest has resulted in much progress in educational work along the lines of housing and feeding, incubation, rearing and marketing, and has been an important factor in bringing the South before the attention of the world as a poultry producing section.

The production of poultry in the South is on a profitable basis. Her people regard the raising of poultry as a business proposition, requiring the application of careful thought, patience and perseverance, and not as a fad pursued merely for pleasure. The South offers unexcelled opportunities to the homeseeker who desires to engage in the poultry business where conditions are ideal, the markets good, shipping facilities unsurpassed, and where land may still be bought at a price that places an investment within her borders beyond the pale of experimentation.

Prof. W. M. Brown, professor of agriculture in the Hixson High School at Hixson, Tenn., and a staff writer for this magazine, has resigned to accept the position of demonstrator of agriculture with the Southern Railway. This department of the railway with headquarters in Chattanooga under the supervision of T. O. Plunket has assumed definite form and will be pushed right along in accord with President Finley's advanced views upon agricultural work. Prof. Brown has been assigned to the Northern Virginia and Shenandoah Valley with headquarters at Manassas, Va.

Don't Raise That Kind

Margie, on her first visit to the farm to spend her vacation, was told to go to the barn and get some eggs. Sometime later she returned, and when asked about the eggs, she said the hens were lazy, that they all stood around and wouldn't do anything.

THE INDUSTRIOUS HEN

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Query—Who Killed Cock Robin?

A FEW months ago we dropped a little squib in these columns, stating that we thought the resolution to abolish the office of second vice president could have come from a different source with better grace. To this paragraph Mr. John Robinson took exceptions, stating that he was the author of the resolution. We apologized to Mr. Robinson, saying that we were of the opinion that the resolution was presented by Mr. S. J. Hopper, first vice-president of the Association. Now we are confronted by Mr. Hopper, who says that he did present the resolution, and that he presented it first.

We have received the following communication from Mr. Hopper relative to the resolution and our comment on the same, which he asks us to give space to in this magazine, and his request is hereby respectfully complied with, to-wit:

Dallas, Texas, Dec. 13, 1912.

The Industrious Hen,
Knoxville, Tenn.

Gentlemen—

When I am convinced that a man willfully does me an injustice through the columns of his paper, I generally feel that I can stand it if he can.

For the second time you have made a very unkind insinuation relative to the amendment offered to the constitution of The American Poultry Association by myself. Knowing that you would not willfully do me an injustice I beg the privilege of having this letter published, feeling confident that my request will be granted.

Ever since I have been a member of the A. P. A., I have been a stickler for economy and my distinguished friend from Boston has done me the honor of commending my editorial on A. P. A. finances to the extent of recommending that it be published in the A. P. A. Bulletin. Secretary Campbell and myself have had considerable correspondence on the subject and it was at his request that I offered the amendment referred to. It was offered at the very end of the time limit and it is needless to say that if any one else had been willing to offer it I would have been very glad to have been relieved of the job. No one ever thought of Mr. Robinson offering it, and, like myself, he sent his in at the very last of the time limit.

There is another phase of this matter that I dare say you have not thought of, and that is the fact that I would not be first vice-president when the amendment went into

effect, as I shall ask to be elected a member of the Executive Board this next time rather than re-elected as first vice president. The passage of this amendment would not have affected Dr. Kleckley in the least. With these two facts before you, I trust that you can look at my action with a little more kindness. It is needless to say that I am glad to know that you really favor the passage of the amendment. As I am going to offer another amendment providing that the Standard shall not be revised "oftener" than every five years, I shall not re-offer this amendment but hope some one else will and they will have my hearty support in its behalf.

As I have told you that I shall offer the amendment relative to Standard revision, I beg to explain myself so you will not misunderstand. As the constitution is now, the Executive Board has no choice as to revising the Standard every five years. Its revision is compulsory. It is the height of folly to say that the Standard needs revision every five years; no less often, no more often. If we can amend the constitution so it can not be revised "oftener" than every five years, then we can revise the Standard only when it needs it.

Thanking you in advance for the privilege of making a statement in reply to your criticism, I am,

Yours very truly,

S. J. HOPPER.

We fail to see wherein a long drawn-out controversy with Mr. Hopper, or any one else over this question, would be of benefit to the American Poultry Association or to the readers of this paper. Suffice it to say in closing the incident, that we are still of the opinion as originally expressed in regard to the matter, although we believe the office of second vice-president is of no value to the Association, and should be abolished.

We heartily commend the stand Mr. Hopper takes here in regard to the revision of the Standard. We trust that he will present this resolution and that it will be adopted, and we assure him it will have our hearty support.

This carries us off to the question of a more uniform system of judging, the permanent home in the country, the school for judges, and other reforms which ought to come to us through the American Poultry Association. And some day they will come. Sometimes we think some harsh things are being said about the association, but possibly in time they will awaken us to the true condition of affairs, and after all they may be for our good.

In the meantime if the honor of presenting the aforementioned resolution is worth dividing—divide it.—E. H. D.

At the Marion, Indiana, poultry show a few days ago, we had the honor of a pleasant visit with our co-writer, Judge J. C. Clipp, of Salttillo, Indiana. Judge Clipp placed the awards at this show to the satisfaction of every exhibitor, the score card method being used. Judge Clipp has been writing for the Industrious Hen for a good many years on the subject of turkeys, and is an extensive breeder of Narragansetts. We trust it will be our pleasure to meet him often.

Mr. J. B. Dismukes, an ex-Hen man, who is now publishing the Banner at Mt. Calm, Texas, had a meeting in his office recently to organize a poultry association at Mt. Calm and discuss plans for a show at that place. This sounds like Dizzy all right; he is full of chicken and knows how to tell it, and it is a safe bet that ere long Mt. Calm, Texas, will have one of the best poultry shows in that section of the southwest. And Dizzy will be there with a string of Anconas, too, mark that.

The quality of the birds at a recent show we visited was far below the standard of our Southern birds. Especially was this true of the Mediterranean class, where nearly every bird exhibited was considerably undersized when compared with Southern raised birds. The Minorcas were a poor lot, scarcely larger than the Leghorns—the latter, however, having good color and shape.

Mr. Murkin Announces for Secretary

Mr. Jno. A. Murkin, of Nashville, Tenn., has announced his candidacy for the office of Secretary of the American Poultry Association at the coming election. In a letter to The Hen, Mr. Murkin says he is in the race to the finish, win or lose.

That "Wolf in Sheep's Clothing"

In the December issue of The Industrious Hen, we published an article under the above head in which we reproduced a letter from Mr. W. F. Kilman, of Pine Bluff, Ark., and also a letter from Judge C. A. Emry, of Carthage, Mo., stating that Mr. Kilman's birds, which he had on exhibition at the Mississippi State Fair had arrived at Pine Bluff in very bad condition, and that a cockerel's ear lobes had been mutilated, etc.

Mr. W. C. Taylor, the Superintendent of the poultry department of the Mississippi State Fair, took exceptions to the article, and sends us the following statements in regard thereto, and we gladly give space for same. To our mind these statements completely exonerate the management of the Mississippi State Fair from all blame in the matter, but they do not eliminate the fact that some one, somewhere, mutilated Mr. Kilman's birds. This dastardly deed could have happened while the birds were en route to Pine Bluff. We still say that the guilty party justly merits public denunciation at the hands of the poultry press. With the publication of the following statements we propose to close the incident, as it is not our purpose to permit controversies to be carried on through the columns of The Industrious Hen:

Jackson, Miss., Dec. 26th, 1912.

The Industrious Hen,
Knoxville, Tenn.
Gentlemen—

In reference to your article "A Wolf in Sheep's Clothing," beg to state that I personally cooped Mr. Kilman's chickens and tagged them with tags sent me by him for the purpose. The birds were not mutilated when I turned them over to the Express Company. With the enclosed four statements I will let your readers draw their own conclusions.

Yours very truly,
W. C. TAYLOR,
Supt. Poultry Dept.

Crystal Springs, Miss., 11-23-12.

Mr. W. C. Taylor,
Jackson, Miss.

Dear Sir—Having been requested by you to look over Mr. Kilman's pen after they were judged to let him know why they didn't win, I distinctly remember his pen. The male's ear lobes were in no way mutilated.

Yours very truly,
(Signed) N. L. Hutchison, Judge.

Plaquemine, La., 11-26-12.

TO WHOM IT MAY CONCERN—This is to certify that I was employed in the office of W. C. Taylor, Supt. Poultry Dept., Mississippi State Fair, 1912. I helped him coop W. F. Kilman's Reds which were the first chickens that were cooped after the Fair. I noticed no mutilation of any kind on his cockerels' ear lobes.

I also helped tack on the tags sent to us by Mr. Kilman, addressed to A. P. Ryeland, Pine Bluff, Ark., with his address on lower part of card. As we had been instructed to look out carefully for any development of sorehead in his chickens so that they would be returned to him instead of being sent to Pine Bluff show, it would have been impossible for them to be mutilated as he claims and not notice it.

Respectfully,
(Signed) J. B. TAYLOR.

Jackson, Miss., 11-26-12.

TO WHOM IT MAY CONCERN—This is to certify that I was employed by the last Mississippi State Fair as Assistant to W. C. Taylor, Supt. Poultry Dept.

I helped uncoop Mr. Kilman's Reds. None of his competitors in pen class were here during the show. I clerked for the judge and was present when the Reds were judged. Also distinctly remember about the third day of the show of the judge being asked to look over Kilman's pen again so that the Supt. could write Mr. Kilman as per his request, and there was no black substance or mutilation of any kind on his lobes.

On Friday Mr. Taylor gave me a list of coops that contained Kilman's birds and asked me to look over them carefully for sorehead or any that were out of condition. There was no mutilation of any kind, nor was any of them sick or had sorehead. I also helped coop his birds

Saturday afternoon, and had there been any mutilation I would have noticed it. None of them were in any way mutilated when they left here.

Very respectfully,
(Signed) A. HURBRUCK.

Jackson, Miss., 2-14-12.

Mr. W. C. Taylor,
Jackson, Miss.

Dear Sir—Noticing the article in "The Industrious Hen" in regard to damage claimed to be done to Kilman's birds, would like to make the following statement. I checked in Kilman's birds and took particular notice of them. In his article he says that the male in his pen arrived in Pine Bluff with earlobes smeared with hard, black substance which was not put on to cover up a defect, but to injure. None of his competitors in the pen class were here during the show. Judge Emry also states that the injury was done here by a competitor. As he wasn't here he certainly overstepped the bounds of reason in making such a statement.

Very truly,
A. C. SHORT.

Secretary Campbell Announces for Re-election

Mansfield, Ohio, Dec. 23rd, 1912.

Industrious Hen,
Knoxville, Tenn.

Please announce that I am a candidate for re-election to the position of Secretary of the American Poultry Association, and standing on my record the constructive and progressive work accomplished in the past three years, ask the support and co-operation of all members.

Very truly yours,
S. T. CAMPBELL.

To American Poultry Association Members

Through the courtesy of this paper, I beg to announce my desire to be elected a member of the Executive Board of The American Poultry Association, and shall greatly appreciate your placing my name on the Nominating Ballot for that office.

I have at all times stood for rigid economy in Association affairs and shall not lessen my energies along that line. I have done what I could to promote as far as possible the giving to the rank and file their fullest say on Association matters. I have been and am now in favor of open meetings of the Executive Board, except when by majority vote of the board they deem the nature of the question under discussion prohibits an open meeting.

I have been and am now opposed to the idea of having to revise the Standard every five years and shall seek to have the constitution so amended as to eliminate that necessity. I am opposed to the scale of points now applying to some, if not all, of our breeds. I shall favor lessening the value of the less important and adding to the value of the more important sections. For instance, in Leghorns, thirty-four out of the entire one hundred points are allotted to the head and its adjuncts. That is a little better than one-third of the entire value and I shall favor decreasing the value of those sections.

When it comes to Standard revision, if we get the constitution so amended as to eliminate the necessity of revising the Standard every five years, whether it needs it or not, they will have to show me before I vote for a revision in 1915. Whenever the Standard is revised I shall favor giving to the breeders their fullest say on what shall and what shall not be required in their breed, whether they are members of a specialty club or not. In asking for your vote, I feel that you have the privilege of knowing my views and I would go further but for abusing the courtesy that has been extended me.

Thanking you in advance for any favorable consideration you give my candidacy, I am

Yours very truly,
S. J. HOPPER,
Dallas, Texas.

We are glad to welcome to our exchange list the East Tennessee Farmer, an 8-page six column weekly, published at Knoxville, Tenn. Mr. W. D. Williams is the publisher. The new enterprise will supply a long felt want, and we bespeak for the Farmer a successful career in the field of journalism.

The Parcel Post Now in Effect

The parcel post law is now in effect. The system will, no doubt, prove to be very beneficial to poultrymen everywhere, as it has been shown by actual trial that eggs can be safely transported by parcel post.

This new law does not apply to any class of mail matter other than fourth class. All merchandise weighing four ounces or less, will be carried at the rate of one cent for each ounce or fractional part thereof, regardless of distance, and it is required that regular parcel post stamps be affixed to same. Regular postage stamps cannot be used in mailing any kind of merchandise of the fourth class, and it will be necessary to purchase special parcel post stamps for same. The name and address of the sender is required on all parcel post matter.

For the convenience of our readers, we give below the schedule of distance, weights and rates:

SCHEDULE OF DISTANCE, WEIGHTS AND RATES.

Weight.	A.	B.	C.	D.	E.	F.	G.	H.	I.
1 pound	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12
2 pounds .....	.06	.08	.10	.12	.14	.16	.19	.21	.24
3 pounds .....	.07	.11	.14	.17	.20	.23	.28	.31	.36
4 pounds .....	.08	.14	.18	.22	.26	.30	.37	.41	.48
5 pounds .....	.09	.17	.22	.27	.32	.37	.46	.51	.60
6 pounds .....	.10	.20	.26	.32	.38	.44	.55	.61	.72
7 pounds .....	.11	.23	.30	.37	.44	.51	.64	.71	.84
8 pounds .....	.12	.26	.34	.42	.50	.58	.73	.81	.96
9 pounds .....	.13	.29	.38	.47	.56	.65	.82	.91	1.08
10 pounds .....	.14	.32	.42	.52	.62	.72	.91	1.01	1.20
11 pounds .....	.15	.35	.46	.57	.68	.79	1.00	1.11	1.32

A—Local rate, 1st zone. B—Zone rate, 50 miles 1st zone. C—2d zone, 50 to 150 miles rate. D—3d zone, 150 to 300 miles rate. E—4th zone, 300 to 600 miles rate. F—5th zone, 600 to 1,000 miles rate. G—6th zone, 1,000 to 1,400 miles rate. H—7th zone, 1,400 to 1,800 miles rate. I—8th zone, all over 1,800 miles rate.

The local rate is applicable to parcels intended for delivery at the office of mailing or on a rural route starting therefrom.

Eggs Are Sent Via Parcel Post

Following is a clipping from the Minneapolis (Minn.) Morning Tribune, which proves the efficiency of the parcel post in the transportation of eggs:

Washington, Dec. 21.—(Special)—One of the first experiments to test the efficiency of the parcel post system, and a practical experiment it is, has reached Postmaster General Hitchcock from Minneapolis.

The postal consignment consisted of 15 eggs, having been sent to Mr. Hitchcock by W. H. Bussey of Minneapolis, and they arrived in good shape. The fact is, however, that the “good condition” idea, except as to breakage of the eggs, must be taken on faith because Mr. Hitchcock is a bachelor who does not keep house, and he has not had the eggs cooked. But he said they came through “O. K.”

He has turned them over to the parcel post officials.

This is the first practical test of the efficiency of the parcel post and it has been made two weeks in advance of the law becoming operative. The meaning of the actual workings of parcel post shipments of eggs from the west to eastern consumers may be shown by the fact that during the past two weeks, eggs in Washington have sold as high as 50 cents a dozen. The making of a law for low carriage rates on eggs for example, means much to the consuming public.

Mr. Bussey has patented an egg container which he says will stand all shocks incident to the roughest travel. The box is made of thick cardboard and so constructed in “V” shaped wedges that it offers, he believes, the maximum protection from breakage. The egg boxes vary in dimensions according to the needs of the shipper. According to Mr. Bussey the boxes are so safe that setting eggs may be sent through the mail without danger of breaking or spoiling.

Value of the Standard of Perfection

Many of our friends in the poultry business seem to be opposed to or afraid of the Standard of Perfection. They have an idea that it is something fancy, and is not intended for the average breeder of thoroughbred fowls. They seem to handle it with cold tongues. Why is this? It must be because of prejudice or fear it will do them some good and give them fancy notions. A great many have erroneous ideas as to the import of the Standard of Perfection.

It is simply an aid to correct breeding. It saves some one a great deal of writing and talking.

For example: Our neighbor, B, is just commencing to breed Plymouth Rocks. This is his first season in the business. He has a lot of young stock on hand almost matured. He finds that some have red ear lobes, others nearly white. Some have flowing tails, others have short fluffy ones. He comes over to my house to find out which are the correct points for good breeding. Before filling an order that he received he has to avoid answering many questions simply because he does not know.

I get down my Standard and refer him to the portion treating of Barred Rocks, and tell him to take it home with him. He does so, and finds just what he has been looking for, and much besides.

He finds that they should have bright red ear lobes and wattles; that any permanent white in the ear lobe disqualifies them; that the comb should be single, straight and firm upon the head, beak yellow, the plumage a grayish white, each feather crossed with dark narrow bars, stopping short of a positive black. This is something new to our neighbor. He had a kind of an idea that they were speckled, as he called it, and it made no special difference whether they were black or white, red and white, or yellow and white, or all the colors mixed in one specimen.

But he would have found out quite different when he had shipped his first lot to a customer who knew what was what.

This has opened his eyes. He begins to study the question in a more serious light and to hunt out the birds which more nearly fill the requirements. He reads on and finds that the body should be broad, deep, full and compact, requiring a pretty good chicken after all. He reads it over and over again. He studies it, and he says to himself: “What a mine of information! I had no idea it was such a work. I think next season I can raise a much finer lot of chickens than I did this. I will discard this one with white ear lobes and that one with light splotches on the neck, and that cockerel with the brassy feathers on the back, that hen with the white in the wings,” etc.

Don’t you see what a vast amount of information there is in this book for hundreds of breeders in just this condition, as well as for the professional? In short, it is the answers to hundreds of questions boiled down in as few words as possible to convey the true meaning.

Then why all this long drawn-out cry against the Standard of Perfection, many times from those who know nothing about it? It has its little imperfections; so do we all. None of us are perfect.

The Standard of Perfection is simply the poultryman’s guide or hand book to correct breeding.

So let us use our Standard more and strive harder to get our birds approximately up to requirements. I would advise all those who breed thoroughbred poultry to procure a copy and work with it and by it.—F. J. Marshall, in Atlanta Georgian.

Send \$2.00 to The Industrious Hen and a copy of the Standard of Perfection, handsomely bound in cloth, will be sent you.

D. C. BACONG. T. HAYWOOD

BACON & HAYWOOD

Breeders and Exhibitors of

White LeghornsBuff Orpingtons

White Plymouth Rocks

Guyton, Ga., December 18, 1912.

The Industrious Hen,

Knoxville, Tenn.

Dear Sirs:

Enclosed please find check to cover bill. Am also enclosing copy for change in our advertisement. If you can keep us on the back page, you may increase our space to one-half page.

We get more inquiries addressed “*88 Springfield Ave.,” than all other magazines combined.

Yours truly,

BACON & HAYWOOD.

*This is their key number for The Industrious Hen.

Single Comb BROWN LEGHORNS

Winners of 4 firsts, 4 seconds, 6 thirds, at Meridian, Mississippi, and Atlanta, Georgia this season. These birds are all produced from the single mating plan. We are breeding birds with style, color and good large combs from a single mating. The hens also have the shape and combs that mark them as splendid layers. Eggs at \$1.50 per 15, \$7 per 100; baby chicks at 12c; stock at \$2.

Promptness and satisfaction our specialty.

STURTEVANT BROS., BROWN LEGHORN FARM

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Box 12

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KUSHLA, ALABAMA

Poultry Shows & Associations

By EDW. M. GRAHAM.

The Hoosier Fanciers' Association, Anderson, Indiana, will hold their fifth annual show, Feb. 11-15, 1913. N. M. McCullough, Secretary. Twenty silver cups, liberal cash prizes that will be paid, and good judges.

The Hamilton County Poultry Association held its annual show, Dec. 10-14, 1912, at Chattanooga, Tenn. There were a large number of very fine birds on exhibition and the display was a credit to Southern breeders. We extend our thanks to the management for courtesies extended The Hen's representative during the show.

The Charleston (S. C.) Poultry Show, held in connection with their County Fair, Nov. 18-23, was a decided success—a well cooped show and one of quality, with 800 to 1,000 birds. Much credit is to be given the Association for the energy displayed in pulling off this show, and next year they expect to excel anything in the past.

The exhibition of poultry at the Hamblen County Poultry Association's show, which was held at Morristown, Tenn., last month was everything that could be desired. Judge C. O. Harwell, of Atlanta, Ga., placed the awards to the entire satisfaction of all exhibitors. Much praise is due the management for the great success attained.

The Polk County Poultry Association will hold its annual show, February 10-15, 1913, at Lakeland, Florida. There will be many cash prizes, cups and specials. The management is sparing no pains to make this show the chief attraction of Southern Florida. For full particulars, write J. H. Wendler, Secretary, P. O. Box 514, Lakeland, Fla.

Through the untiring efforts of Mr. W. M. Matthews, the Jacksonville (Fla.) Tri-County Fair put on a very creditable poultry show, Nov. 23 to Dec. 1, 1912. The attendance was not what it should have been, but we praise Mr. Matthews and his associates for doing everything in their power to make it a success. The prizes were awarded by Judge Loring Brown.

The fifth annual exhibition of the Spartanburg Poultry and Pet Stock Association will be held at Spartanburg, S. C., Jan. 7-10. Judge D. M.

SHOW DATES.

Springfield, Ill., Jan. 6-12, 1913.
Roanoke, Va., Jan. 7-10, 1913.
Plainfield, Texas, Jan. 7-10, 1913.
Warrenton, Va., Jan. 7-10, 1913.
Norfolk, Va., Jan. 7-10, 1913.
Plainview, Texas, Jan. 7-10, 1913.
Spartanburg, S. C., Jan. 7-10, 1913.
Rochester, N. Y., Jan. 7-11, 1913.
Portland, Ind., Jan. 7-11, 1913.
Charleston, W. Va., Jan. 7-11, 1913.
Roanoke, Va., Jan. 7-11, 1913.
Morgantown, W. Va., Jan. 8-11, 1913.
Blue Island, Ill., Jan. 8-11, 1913.
San Antonio, Texas, Jan. 7-12, 1913.
Charlotte, N. C., Jan. 10-14, 1913.
Washington, D. C., Jan. 14-17, 1913.
Stateville, N. C., Jan. 14-17, 1913.
Jacksonville, Fla., Jan. 13-18, 1913.
Richmond, Va., Jan. 14-18, 1913.
Palistine, Ill., Jan. 14-18, 1913.
Oklahoma City, Okla., Jan. 20-25, 1913.
Altoona, Pa., Jan. 21-25, 1913.
Peru, Ind., Jan. 21-25, 1913.
San Antonio, Texas, Jan. 22-26, 1913.
Columbia, S. C., Jan. 28-31, 1913.
Marshall, Ill., Jan. 28-Feb. 1, 1913.
Columbia, S. C., Jan. 28-31, 1913.
Lakeland, Fla., Feby. 10-15, 1913.
Fort Worth, Texas, March 18-23, 1913.

Owen, of Athens, Tenn., will place the awards, and the judging will be by comparison. The management is looking forward to the most successful show that has ever been held at Spartanburg. Full information, etc., can be had of B. L. Blackwell, Secretary.

The Greater Columbia Poultry show will be held January 28-31, 1913, at

PARCEL-POST OFFER

To All Poultry Raisers of U. S. A.

That All May Know the Exceptional Value and Unusual Merit of

"F.P.C. CHICK MANNA"

The Original, First Offered and Leading SPECIAL PREPARED 1st 10 DAY FOOD

Peculiarly Adapted, Recognized Unsurpassed for

Starting Newly Hatched

Chicks, Turkeys and Pheasants

Healthy, Strong, Vigorous, Well Developed

Brings the tender little creatures through the most critical period by regulating and strengthening their fine tender organs

Introduced

1934

A trial will prove its merit

"They not only like it but thrive wonderfully on it."

—M. K. BOYER



Thoroughly tried and tested 28 years by leading Poultry Raisers and proven to be a food of unusual merits. Profit by the experience of others. Use it on your next hatch coming off

Ask your dealer for it. Insist on having it. Don't substitute

Sold by leading Poultry Supply Houses

1 lb. feeds 15 Chicks, 5 lbs. feeds 75 Chicks for first week

CUT OUT MAIL TO-DAY Special Introductory Coupon

Good Jan. 1 to March 15, 1913

This coupon entitles sender to either a 1 pound or a 5 pound package "F. P. C." Chick Manna sent post paid, to any post office or R. D. Route in States named at special introductory prices named below.

Maine, N. H.	O. Mich. W. Va.	Cal. Ari Wash	Wis. Iowa,
Vt., Mass., R. I.	Ky. Ind. S. C.	Nev. Utah.	Ill. Mo. Arka.
Conn., N. Y.	and N. C.	Idaho, Ore.	Tenn. Miss.
Penna., N. J.	1 lb 21c	1 lb 30c	Ala. Ga.
Del., Md., Va.	5 lbs 65c	5 lbs 95c	Florida
	Minn. S. D. N. D.	New Mexico	
	Neb. Kas. Okla.	Col. Wyo.	
	La. Texas	Mont.	
	1 lb 17c	1 lb 28c	1 lb 23c
	5 lbs 54c	5 lbs 80c	5 lbs 70c

Send for free Circulars of "F.P.C." Poultry Food and Supplies

F. P. Cassel & Son Sole mfrs. Lansdale, Pa.

KILMAN'S SINGLE COMB RED QUILL REDS

Another sweeping victory in strong company. 1st, 2nd, 4th and 7th cockerel; 1st, 3rd, 5th and 7th pullet; 2nd cock; 1st and 2nd pen. Cup for best 15 Reds. Cash special for best 15 parti-colored birds, gold leg-bands each for best parti-colored male and female, and grand gold medal for BEST COCKEREL IN THE SHOW, all breeds competing, 12 regular and 13 special prizes on 21 birds entered. This record at the big A. P. A. meet and Arkansas State show at Little Rock. Get our mating list. Eggs, \$5.00 per 15.

W. F. KILMAN

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BALD KNOB, ARKANSAS

A Home Machine for Home Folks

Made to Suit the Conditions in the South

MANUFACTURED BY

Southern States Incubator & Brooder Co.

COLLEGE PARK, GEORGIA

A Machine that is hatching big per cent of Ducks and Chickens. It is absolutely free from smoking or catching on fire.

TEMPERATURE
MOISTURE
VENTILATION

} AUTOMATIC

There is no machine on the market today better in any way than this machine. Made from the best of natural oak grown in Georgia; highly polished, it is a substantial and beautiful piece of furniture. All inside heating equipment made from best grade of copper.

IT IS A MACHINE OF

{ LASTING QUALITIES
ORNAMENTAL QUALITIES
EFFICIENT QUALITIES

Write us for our catalogue, describing fully each machine and brooder, with prices. Don't buy until you have investigated our machine.



Let Chas. A. Cyphers Save You 50% On A Standard Buffalo Incubator

The Cyphers who is "The Recognized Authority" on Artificial Hatching.
The Cyphers who made Commercial Hatching Possible.
The Cyphers who discovered the Cyphers Principle.

The Cyphers whose Incubators Circle the World.

The Cyphers who will sell you his latest creation, the "Buffalo" at half the Standard Price.

Let Me Save You 50% My new Incubator, the Buffalo, fulfills the life-long demand of thousands of poultrymen. It offers all the quality of the best high priced incubators, at just half the price of any other incubator containing the Cyphers Principle.

Sterling Principles Maintained

Every vital principle that made my Original Cyphers a World Success is embodied in the Buffalo. The same three-compartment heater; the diffusive ventilation; and the sensitive and accurate regulator, combined with heavy insulation, and durable construction with refinements not included in the original.

Buffalo Incubators insure you big hatches of strong chicks that live and are easily raised to

make money for you.

I offer you an Incubator that is second to none in **Durability, Reliability, or Quality.** You can't get an incubator as good, no matter how much you pay. Nearly any incubator will hatch some chickens. The biggest profits are made by operating the **Buffalo**, which will hatch a strong and vigorous chicken from every hatchable egg.

Note My Low Prices

Offer No. 0— 50 to 60 Egg Size—Ship. Wt. 65 lbs. \$10.50 | Offer No. 2—220 to 240 Egg Size—Ship. Wt. 130 lbs. \$19.00
Offer No. 1—110 to 120 Egg Size—Ship. Wt. 90 lbs. \$14.50 | Offer No. 3—340 to 360 Egg Size—Ship. Wt. 160 lbs. \$24.00

My Brooder Prices are Equally Low

The New Big 4— 1440 Egg Capacity Incubator \$84.00

An Incubator—not a hatcher—occupies same floor space as any standard 360 egg machine. Incubating section run in conjunction with your present hatcher will increase its capacity by 1080 eggs.

Incubating section alone, 1080 egg capacity. operated with one lamp, costs but \$60.00.

Something New in Hovers Buffalo Handy Hover \$8.00 = Buffalo Home Hover \$7.00

The Buffalo "Handy" is a floor level hover—sanitary—perfectly ventilated—heats easily—uses little oil—flame can be seen without stooping. Send postal for fuller description, or better, send along your order before we are over-sold.

Chas. A. Cyphers, President BUFFALO INCUBATOR CO., Buffalo, N. Y.
476 Dewitt Street

Columbia, S. C., under the auspices of the South Carolina Poultry Association. The official premium list is very handsome and contains many valuable premiums. Judges Loring Brown and Dr. S. T. Lea will handle the birds, and it is expected that there will be an unusually large number of entries. Full particulars may be had by writing T. L. Little, Sec'y-Treas., Camden, S. C.

The following persons were elected as officers of the Hamblen County Poultry Association, at a recent meeting held at Morristown, Tennessee: C. E. Eckel, re-elected President; F. D. Smith, re-elected First Vice-President; O. L. Wall, elected Second Vice-President; J. J. Thompson, re-elected Secretary and Treasurer; Mrs. Mary F. Skeen, re-elected Assistant Secretary. Board of Directors as follows: F. Roger Miller, J. A. Dinwiddie, S. A. Brown, Mrs. R. B. Furman, Mrs. A. S. Garrell, Chas. I. Hurst, A. J. Stanbery, C. C. Wigington, Mrs. B. H. Huggins, John W. Snoddy.

The second annual show of the Alabama Poultry Association, held at Birmingham last month, was a great success. There were 1,200 entries. The Association spared no pains in giving it every attention and extended every courtesy to the exhibitors and the press. We have a very warm feeling for the boys down in Birmingham and may their future efforts

be crowned with much success.—Goodlin.

There is a beautiful little city down in "Dear Old Georgia," called Columbus, which has recently held a big poultry show, good in quality and sufficient in quantity, and the writer can truthfully say excelled by none. Prizes were awarded by Judges Marshall and Lansden. We extend many thanks to the Association for the courtesy extended the press. To make the occasion more delightful, we were given a very large oyster supper, which was very much enjoyed by every one present.—Goodlin.

The Northeastern Poultry and Pet Stock Association, Incorporated, of

Green Bay, Wis., will hold its fourth annual show January 30-31 and February 1, 2 and 3, 1913.

Earnest Van Ermen, Green Bay, Wis., Show Secretary.

S. B. Johnston, Poultry Judge.

J. P. Baum, Dog Judge.

Greg. Collard, Pigeon Judge.

They expect to make this one of the leading shows of the season. Plenty of cups and cash prizes offered, open to the competition of the world.

Full particulars may be had by addressing the secretary.

ONE OF THE BEST.

In mentioning the Southern Shows this season, it is our chief desire to announce the fact, Augusta, Ga., was one of the greatest. The Association is full of "Live Wires." Every representative is an active member. In addition to their most liberal cash prizes, they gave a greater number of specials and cups than heretofore. Through their energy and hospitality, which is characteristic of the members of the Augusta Poultry Association, the Big Show was a decided success. There were many exhibitors, a large entry and a good attendance. Don't forget to send your birds to the Augusta show next year.—F. A. Goodlin.

THE SOUTH'S GREATEST POULTRY SHOW

The second annual show of the Southern International Poultry Association, held at Atlanta in the Auditorium, December 16-21, was the largest ever held in the South. There was much interest manifested by both visitors and exhibitors, and every feature of the show was a great success. The attendance was large, and many sales were made. This mammoth show was ably handled by the congenial secretary, Mr. T. M. Poole, and superintendent, Harry Jennings, of Knoxville, and their associates. We want to say that the association made it very pleasant for every one, and treated the press with much courtesy.

At the last meeting of the Northern Indiana Poultry Association the following officers were elected: President, Dr. N. F. Hazlett; Secretary, Frank Sherwin; Treasurer, W. A. Mills. The first annual show held in December was a success and a dividend of ten per cent on the capital stock was declared.

Single—WHITE ORPINGTONS—Comb

Prize winners at seven of Kentucky's best poultry shows, including Lexington and the State Fair at Louisville. Took 75 per cent of all cups and ribbons shown for, and in some cases every "Blue." Won Display Special at Ky. State Fair and others. Limited number of Cockerels for sale, \$5.00 each. Eggs for sale in season at \$3.00 and \$5.00 per fifteen.

W. B. GWYNN & SON, 355 E. Main St., Georgetown, Ky.

LANSDEN'S FAMOUS RHODE ISLAND REDS

Again stamp their superiority at the great Tri-State Fair. Meeting the best from four States, and a bunch from one of the "Eastern Would-be Kings," by taking 8 prizes including first cock, first cockerel. Lots of show birds for you, and before you go up against it, you had better write me. My customers are winning all over the south and west. My customers' list, "if you could see it," would surprise you.

Licensed Poultry Judge.

21 years experience in the business.

H. B. LANSDEN, Manchester, Tenn.

My X-Ray Incubator Uses Only 1 Gallon of Oil for a Hatch and Requires only 1 Filling of the Lamp



You
Can
Save
75c to
\$1.25 on
Every
Hatch



Greatest incubator ever put on the market. Built totally different from other old-style machines. Has large oil lamp (4-to-8 quart capacity) *underneath*—square in the center—*not* on the side. This is only right *principle* of construction. Why? Gives an absolutely even heat in egg-chamber *all the time*. No cold sides—no draughts. Always proper hatching temperature. Fill lamps just once—then forget it till *next* hatch.

← **Other Incubators Use 5 Gallons of Oil (too costly!) and Lamp Has to be Filled Every Single Day**

My patented automatic trip—an exclusive X-Ray feature—cuts down flame *at burner*, so there's no *excess* heat—no smoke, no smell—*absolutely no waste!* My X-Ray Regulator is purely *automatic*—takes care of itself—relieves

you of all responsibility. You never have to touch the regulator of my X-Ray; it's automatic; it's the most perfect heat regulating device ever invented.

My heater being centrally located (underneath) conveys equally a direct heat from the lamp into every part of the egg-chamber. Door of my X-Ray is on top—where there are two double-glass panels through which you can see the thermometer at anytime, without raising lid and chilling eggs. To ventilate or turn eggs, simply raise lid. Eggs are never taken out of X-Ray.

**Shipped Direct from X-Ray Factory
To You—No Agents—No Dealers—
Guaranteed to Please—Freight Prepaid**

To use my X-Ray means less egg-handling, less oil, less heat generated, absolutely no waste, no filling of lamp during hatch, no fumes, no danger of "cooking" eggs—but an even heat always over the **WHOLE** egg-chamber. My X-Ray weighs $\frac{1}{4}$ to $\frac{1}{2}$ less than the old-style machines of same egg capacity. I, personally, guarantee it to please you—to give you the biggest and best hatches you ever had. Anyone can be successful with my X-Ray—it is so simple. It is neatest, cleanest, most beautiful incubator made. Women everywhere prefer it—often placing it in their houses, it is so attractive.

My new free book No. 25 tells all about the X-Ray Incubator and Brooder. Shows why X-Ray Brooder is best home for little chicks. It has same perfect heating system as X-Ray incubator, with big lamp that requires only *one* filling. Safer than the old hen herself to raise chicks.

**Write Today for Free Book No. 25 on X-Ray
Incubators and Brooders—Get Factory-to-You Price**

Mail me a personal letter (or postal). Let me send you my Free Book No. 25. I can save you money—and *make* money for you. Let me *prove* it to *YOU!*

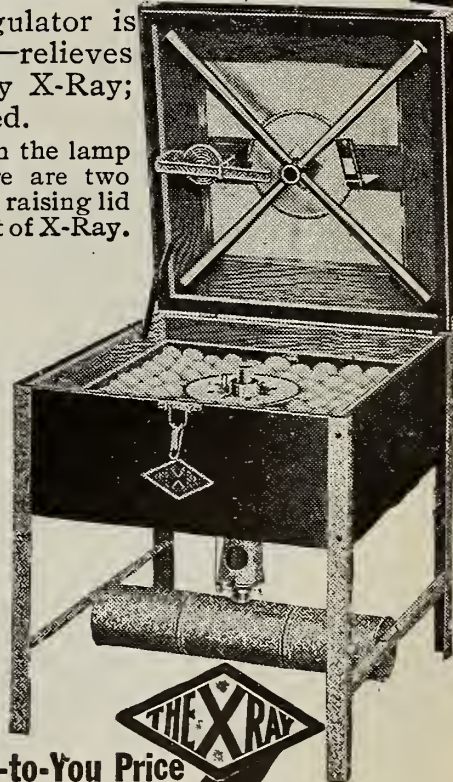
J. H. KATE, President

**X-RAY INCUBATOR
COMPANY**

Wayne, Neb.

Built with the Same
Heating System as the
X-Ray Incubator

The X-Ray Brooder



**No
Agents
or Dealers**

**Freight
Prepaid Anywhere**

BLACK—BUFF—WHITE ORPINGTONS

At the West Tennessee Poultry Show, Jackson, Tenn., Dec 10-14, our exhibit was the sensation of the show, winning eight firsts, three seconds, two thirds, two fourths, six specials and one sweepstake, in competition with 300 birds.

Book orders for eggs now and get the purest blood and breeding of England and America. 15 eggs \$10.00. Write today for catalogue.

MAPLE HILL POULTRY YARDS

CREASY & DENVER, Proprietors

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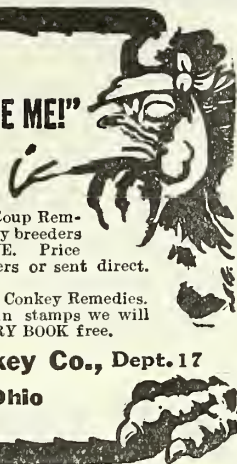
LEXINGTON, TENNESSEE

"DON'T WORRY! CONKEY WILL CURE ME!"

CONKEY would like to hear from poultry raisers everywhere who dread loss from ROUP. Your money back if Conkey's Roup Remedy EVER fails you. Many breeders use it as a PREVENTIVE. Price 50c and \$1.00. All dealers or sent direct. Get this NOW.

Send for complete list of Conkey Remedies. If you enclose 4 cents in stamps we will mail you 80-Page POULTRY BOOK free.

The G. E. Conkey Co., Dept. 17
Cleveland, Ohio



THE GREAT PAN-AMERICAN SHOW.

The following letter from D. O. Lively, Chief of Department of Live Stock, Panama-Pacific International Exposition, to the President of the California Branch of the A. P. A., will no doubt be of general interest to our readers, and shows what great preparation is being made to have the greatest poultry exhibition ever held in the United States:

Mr. L. C. Byce,
Petaluma, California.

My Dear Mr. Byce:

In response to your inquiry as to the Poultry Division of the Live Stock Department of the Panama-Pacific International Exposition at San Francisco in 1915, I can say that the outlook is encouraging indeed. It is my ambition to make this division an outstanding attraction.

I am fully aware of the scope and spread of the poultry industry, and can give you no better outline of the interest in poultry than to cite an experience which I recently had. At Portland, Oregon, on Saturday night before the election, with all sorts of local issues and personalities involved, with torchlight processions, bands playing, and orators in abundance, I attended the Y. M. C. A., where fully five hundred people sat through a patient two hours listening to an address on poultry raising.

I have asked you as the President of the California Branch of the American Poultry Association, and as a member of the Executive Committee of that body, to at once take up the question of the appointment of a committee of three, consisting of the National President, one Eastern man and one Western man, who will render this department the services of their counsel and experience in making the

FAVORITE Black WYANDOTTES

THE UTILITY AND EXHIBITION FOWL. Winners wherever shown. The originator of this strain in the South; some choice young stock. Eggs in season.

S. H. SANDERS R. 1 MADISON, TENN.

RICHARDSON'S ROSE COMB REDS

MADISON SQUARE GARDEN, BALTIMORE, HAGERSTOWN, won this season five firsts, four seconds, four thirds, one fourth, five fifths. WRITE YOUR WANTS. MEMBER RED CLUB and AMERICAN POULTRY ASSOCIATION.

M. C. RICHARDSON, JR. : Front Royal, Va.

POULTRY BARGAINS

A few S. C. WHITE LEGHORN, WHITE WYANDOTTE and BUCKEYE hens and cocks for sale cheap. Also Pedigreed Collie Puppies. Write your wants. I can please you.

MRS. H. P. HINTON

R. F. D. No. 6, Box 87-A

--

Dallas, Texas

Poultry Show in 1915 international in scope. Mr. Hicks, President of the A. P. A., has already accepted an invitation to serve on this committee, and with the appointment of the two others suggested, the committee will be complete. It is also my hope that following the plan that has been adopted by the Live Stock Associations, the Secretary of the American Poultry Association will be instructed to come to San Francisco in 1915, and to serve as Superintendent of the Poultry Division.

Correspondence has been instituted with all of the Specialty Clubs in the United States, asking them to supplement the \$12,500 set aside by the Exposition Company to be used as premiums for poultry, pigeons, and pet stock. The American Poultry Association will be asked to make a liberal appropriation for special prizes at San Francisco. A campaign has been instigated in nearly every State in the Union, having for its purpose the inclusion of special prize money for live stock in the appropriation which will be made by each of these States for representation at San Francisco. This appropriation, if made, will be handled by the State Commission appointed for that purpose, and will be applied over the Exposition Company's premium list, thereby, of course, including poultry.

Correspondence with poultry fanciers in foreign countries, indicates a

widespread interest. From all over Europe letters of inquiry have reached this office, indicating an intention, not only of personal attendance, but of exhibiting some of their best specimens. Definite assurances have been made to the effect that we will have poultry displays from China, Japan, and Korea. Each of the poultry publications of the United States has given space to the Poultry Show at San Francisco in 1915.

We not only want and expect to have the biggest poultry show that has ever been given, but it should be the most modern in quality, in methods of showing, and in judging. Throughout my department, I am seeking to attain an advancement in methods in keeping with the character and spirit of the great exposition that will be given at San Francisco in 1915.

Yours very truly,
(Signed): D. O. LIVELY,
Chief Department of Live Stock.

The Florida State Poultry Show will hold its second annual exhibition at Jacksonville, Fla., Jan. 13-18, 1913. Judging from the preparations being made by the management, the coming show will be a banner one. Liberal cash prizes, cups and ribbons will be offered. Full information can be had by writing H. E. Partridge, Jr., secretary, Box 345, Jacksonville, Fla.

MONMOUTH QUALITY

AT THE GREAT S. I. P. A., ATLANTA, GEORGIA, SHOW, DECEMBER 16th to 21st, WAS KEENLY
DEMONSTRATED BY THE SWEEPING VICTORY OF

MONMOUTH S. C. BUFF AND WHITE LEGHORNS

IN WHITES, won 1st, 2nd, 3rd cock; 1st, 2nd, 5th hen; 2nd, 3rd, 4th, 5th cockerel; 1st, 2nd pen; and CHAMPION AND SWEEPSTAKES COCK OF THE SHOW. In BUFFS, won 2nd, 3rd, 4th, 5th cock; 1st, 2nd, 4th, 5th hen; 2nd, 3rd and 5th cockerel; 1st, 3rd, 4th and 5th pullet; 2nd and 3rd pen. Also two silver loving cups and many Specials. These winnings were made in competition with the Cream of the Southern States and the result speaks for itself. A grand lot of exhibition and utility birds in both varieties on hand. We are now booking egg orders and you cannot afford to wait, so write us at once, stating your wants. Our matings this season are superb. Our 1913 Catalog and Mating List will be ready for mailing about February 1st.

NOTE—Send 25 cents for a reproduction in colors of Schilling's wonderful oil painting of the greatest trio of S. C. Buff Leghorns ever bred. A masterpiece worth having.

J. C. PUNDERFORD, Owner

THOMAS LOCKWOOD, Supt.

MONMOUTH FARMS

FRENEAU,

Monmouth County,

NEW JERSEY

REPORT OF COMMITTEE ON MARKET POULTRY AND EGG STANDARD.

The committee appointed by the American Poultry Association to prepare a Market Poultry and Egg Standard, held its first meeting of the whole committee at Chicago, on Monday, the 28th of October, at 10 a. m.

The following members of the committee were present:

R. H. Essex, Chairman, Buffalo, N. Y.; W. R. Graham, Guelph, Ont.; T. E. Quisenberry, Mountain Grove, Mo.; Wm. A. Lippincott, Manhattan, Kan.; H. C. Pierce, Nashville, Tenn.; G. C. Bowman, Topeka, Kan.; Frank Hare, Quincy, Ill.; Harry M. Lamont, Washington, D. C.; Paul Mandeville, Chicago, Ill.

The whole committee were therefore present except Mr. J. M. Foster, Brown's Mills, N. J., who was ill and could not attend.

Mr. Reese V. Hicks and Mr. S. T. Campbell, President and Secretary of the Association, were present.

Mr. Robert H. Essex, chairman of the committee, outlined the work to be done, first reading to the committee, the report presented at Nashville, and the resolution of the American Poultry Association at that meeting, under which the committee is acting. This was done in order that the committee might in their work adhere strictly to the requirements of the Association.

The work and correspondence that had been taken up by the committee during the past year were dealt with, and fully discussed. The President and Secretary of the Association were invited by the chairman to give their views on the subject.

Information, literature, etc., which has been referred to in the report presented to the Association at Nashville, were thoroughly discussed by a committee of the whole, after which sub-committees were appointed by the Chairman to take up the work on Market Poultry, Eggs, Illustrations, Editing and Publicity, and the work of the sub-committees was well under way when on Wednesday evening the final meeting adjourned.

Members of the Standard Committee inspected the poultry packing and egg departments of the Armour Pack-

ing Company, also of the Chicago Cold Storage Company.

The National Poultry, Butter and Egg Association was in session at Chicago at the same time as this committee; and at the Tuesday afternoon meeting of that Association, Messrs. Essex, Graham and Mandeville, by invitation, addressed the Association on the subjects of this work, at the conclusion of which addresses the National Poultry, Butter and Egg Association was invited to appoint a committee to co-operate with the Market Poultry and Egg Standard Committee. The National Poultry, Butter and Egg Association agreed to co-operate, and appointed as their representatives, Messrs. Paul Mandeville, of Chicago, Ill., and Geo. C. Bowman, of Topeka, Kansas.

The committee decided that it would be necessary to have certain of the sub-committees visit packing houses and other industries whose business would be affected by the Standard, in order to secure further information, and that as opportunities arise the sub-committees would hold such additional meetings as are advisable.

Much valuable information has been gathered by the committee in the course of the past year, and it is intended to thoroughly investigate conditions governing the industry in various countries before completing the work, so that the Standard may be down-to-date, and thoroughly representative of the industry.—(Signed): Robt. H. Essex, Chairman.



A Blue Ribbon Winner. Bred and owned by W. E. Gabhart, Bohon., Ky.

More Money from Poultry

NOW is the time to get in the money-making poultry business with one of my Successful Incubators—only \$6.75 up. With the "Successful" no experiments or trial! hatches are necessary—you can be sure of success every time.

SUCCESSFUL INCUBATORS

(Life Producers)

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give most chicks—raise more chicks—and are guaranteed with the strongest guarantee ever put behind any machine on the market. Don't buy an incubator that guarantees less than I do. Send your name now for catalog, low price proposition, guarantee, and Free Lessons in Poultry Raising that insure success.

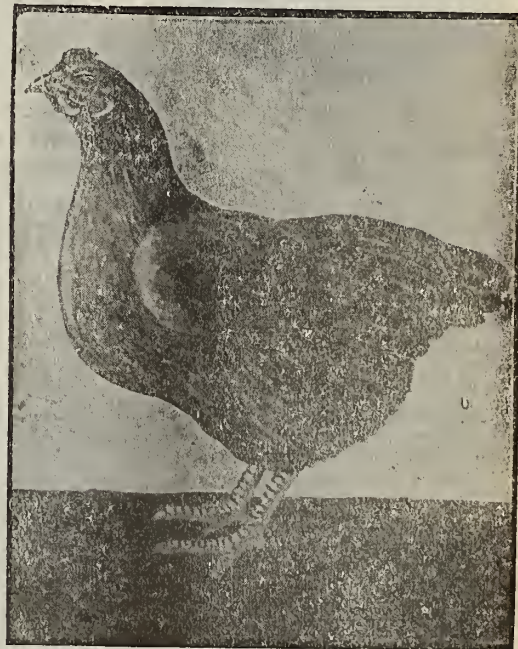
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364 Second St., Des Moines, Ia.

NOTE—Book "How to Raise 48 out of 50 Chicks", 10c—Catalog is FREE. Get it.



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EADY'S S. C. RHODE ISLAND REDS



Winners wherever shown. We have won in many classes, we can furnish you with good breeders at reduced prices. We have a lot of old and young stock for sale. Get our prices before you buy. Our birds were bred from winners, have been closely line bred and are fine layers. Pens will be mated January 1st, 1913. Eggs at reasonable prices.

C. W. EADY,

Guntersville, Ala.



Ideal Aluminum Leg Band

To Mark Chickens

CHEAPEST AND BEST

12 for 15c; 25-20c; 50-35c; 100-60c; 175-\$1.00; 200-\$1.10; 500-\$2.50. Price list and sample 2c. Frank Myers, Mfr., Box 50, Freeport, Ill.



GRANT M. CURTIS

President Cyphers Incubator Company—Head of Cyphers Company Service Department.

Mr. Curtis has been closely identified with the poultry industry—in a big way—for twenty years, as an extensive owner and breeder of fowls, as a poultry journal editor, as an incubator manufacturer and as an active supporter of the American Poultry Association. He is personally at the head of Cyphers Company Service Department and spends a large amount of time in this special work, because he believes thoroughly in helping those who try to help themselves.



W. C. ELLISON

Member Cyphers Incubator Company Service Department

Mr. Ellison has had many years of personal experience with Standard bred poultry, artificial incubation and brooding. Has spent much time in research and experimental work and made a special study of poultry diseases, their causes and cures. Fourteen years a poultry judge. Holds A. P. A. General license. Instructor at Agricultural Colleges and dept. editor of poultry journals.



29997

Learn All That Cyphers Company Service Really Means To YOU

The men who are back of Cyphers Incubators and Brooders are back of *your success*. The moment you become a Cyphers Company customer you are entitled to the full benefits of Cyphers Company Service—the Service that goes farther, *means more* to help the poultry raiser than it has *ever meant before*. As now organized we are never out of touch with Cyphers owners, so far as we can be of help to them. Their problems are our problems.

The Cyphers Company *Service Department* has been established at great expense to give our customers the benefit of the knowledge and experience of practical poultry men, chosen for their standing in the poultry world—for their ability to advise by bulletins, timely booklets and by *personal letter* every customer, so that they cannot go wrong if the plain information and complete instructions are followed.

The Men Who Safeguard Your Success

are here daily to answer *your every question*—to write you concerning every condition that may arise in your poultry work. Their advice is just as much to the point, just as practical, just as profitable to you as if they *personally visited you* at your home and made suggestions on the spot.

Mr. Curtis and his right-hand Advisory Aids and Division Correspondents, Messrs. Jackson, Jeffrey and Ellison, have entered into this work heart and soul.

For long terms of years they have been prominently identified with the growth of the poultry industry, not only as instructors and judges but as practical breeders. They are *sincerely in earnest* in their desire to give every Cyphers customer

Service Heaped Up and Running Over

and are in a position to do it to your great advantage. The knowledge and experiences, the tests and records which guide these men in their advice to you *do not come out of books*. They represent the practical, down-to-the-minute developments and tests made on the

Cyphers Company \$75,000 Demonstration Poultry Farm

On this fifty acre farm we have tested, long and repeatedly, practically every article sold by the Cyphers Company and have worked out the *simplest*, most practical methods for the *profitable production* of chickens, turkeys, ducks and geese. We have learned how to *feed correctly*, how to secure the *largest egg yields*—the *finest quality* of poultry meat.

And on this complete, all-purpose poultry plant our experts are learning continually *new lessons* of value to you—facts and experience which they pass on to you willingly to make your poultry raising a *much greater success*.

No matter whether your purchase is large or small, you have simply to become a Cyphers Customer to secure all this free aid and counsel, our free Bulletins of latest developments which are sent you regularly. Write as many letters as you like, the answers will be prompt—*complete*. And, remember, all this Service is without charge. It is greatly to our interest to help make your work *more successful*.

When you purchase a Cyphers Incubator and Brooder—or any of the Standard Cyphers Poultry Equipment, you stand to win from the very beginning—*because you have the right tools*. Cyphers Incubators and Brooders mean no troubles—heat or moisture or any other kind. They *also mean* big, uniform hatches—chicks *that live*. Self-regulating, self-ventilating. Substantial. Fireproof. They are made for men and women who are *in earnest*—who want a *real incubator*, not a toy, a makeshift or an experiment. The kind of equipment that fits into Cyphers Company methods, that insures the right application of our

CYPHERS INCUBATOR COMPANY, Dept. 13, Buffalo, N. Y.

Branch Stores: New York City, 23 Barclay St.; Boston, Mass., 12-14 Canal St.; Chicago, Ill., 329-331 Plymouth Court; St. Louis, Mo., 317-319 Southwest Blvd.; Oakland, Cal., 2127 Broadway; London, Eng., 121 Finsbury Pavement.

HOMER W. JACKSON
Member Cyphers Incubator Company Service Department

Mr. Jackson has been a large-scale poultry raiser. Made a specialty of poultry and fruit combined. For six years conducted the "National Stockman and Farmer" Poultry Farm. Was Associate Editor of that publication. In 1909 became instructor in Poultry Husbandry at Pennsylvania State College and Agricultural Experiment Station. Author of several Poultry books. Farmers' Institute Lecturer. Resigned position at Pennsylvania State College to enter Service Department of Cyphers Incubator Company, June, 1912.

J. S. JEFFREY
Member Cyphers Incubator Company Service Department

Mr. Jeffrey has raised Standard Bred Poultry since boyhood. Was Director of Western Ontario Poultry Association 1902-3. Served as Vice-Pres. Canadian Barred Plymouth Rock Club. Was placed in charge of North Carolina Agricultural Experiment Station in 1903. Four years later was advanced to instructor in Poultry Husbandry North Carolina College of Agriculture and Mechanical Arts. Resigned this position to join Cyphers Company forces. Farmers' Institute Lecturer 1904-11.

Free Bulletin and Personal Letter Service

The kind for business-like, *money-making* poultry raising.

Here are short extracts from a few letters showing how Cyphers Company Service has proved "extra good measure" for poultry raisers—how quality, plus Cyphers Service and Personal Advice, have insured *best results*, largest profits—the joy of *real success*.

W. E. COWING, Provincetown, Mass.—"The publication of 'Cyphers Service' Bulletins calls for an expression of appreciation from every poultryman in the country."—Sept. 19, 1912.

F. W. DONALDSON, West Alexander, Pa.—"Cyphers Service" Bulletins are, according to our idea, about the best poultry literature that has been published."—June 17, 1912.

E. STEPHENS, Clinton, Iowa—"The Bulletins have helped me more than anything I have read on the subject. Cyphers Company customers are for-

tunate in dealing with a firm which gives them full value in appliances and stays with them over the rough places."—July 23, 1912.

J. J. KELSEY, Rome, N. Y.—"I consider this 'Service' of great value to poultrymen. The Bulletins are concise and valuable to all who may have them."—July 8, 1912.

C. C. BUTTERFIELD, Bunnell, Fla.—"The Bulletins are valuable to any one interested in poultry. You are to be highly commended for establishing the 'Service Department.'"—June 12, 1912.

"Profitable Poultry and Egg Production"

Don't lose sight of *this fact*; poultry meat and eggs will command—and keep on commanding *high prices* throughout 1913. Last season's shortage in the chick and egg crop is

one reason. Another thing—poultry feed is unusually cheap *this year*, because of the farmers' bumper crops. These

facts are in your favor. It is only a question of being rightly equipped and getting at the thing in a right, business-like way—having the right personal counsel and advice. All these things you secure with Cyphers Company Service and they don't cost you *one extra penny*. We want to tell you more about it—about our 1913 plans and methods—about how well organized we now are to give you the exact information and knowledge you require to back you up all the way through to *genuine success*.

But Send Today—These Three Books are Free

Write at once for "Profitable Poultry and Egg Production"—positively the greatest free poultry book ever issued. Full of richly helpful, practical information worth *many dollars* to every poultry raiser who *means business*. 244 pages, instructively illustrated. Eight special chapters give the very *latest developments*, the most down-to-date methods for profitable poultry and egg production:

Chapter I—What is Possible in Poultry Meat Production; Chapter II—What Can Be Done in Way of Egg Production; Chapter III—Deep-Litter Feeding Experiments of 1912; Chapter IV—Quick Maturity in General Purpose Fowls; Chapter V—Ages and Weights of Chickens for Table Use; Chapter VI—How to Establish Prolific Egg-Yield Flocks; Chapter VII—Today's Best Chance in the Poultry Business; Chapter VIII—Small-Scale Poultry Keeping on a Practical Basis.

Your Choice of Three Bulletins Free

This big, free book also tells you how to secure your choice of three of the latest Cyphers Company Bulletins and a free copy of our valuable book, "Reports of Successful Poultry Growers"—the book that contains the 80 reports that won the \$1,000 in cash prizes for the most valuable records and accounts of *poultry raising results* in 1912 all over the country. This book is worth hundreds of dollars to poultry raisers. Its contents alone cost us \$1,000 in cash outlay—and it's the best thing of the kind we have ever done. A copy will be *mailed free* to every reader of this paper who requests it. Write today for *your copy* of "Profitable Poultry and Egg Production"—also the \$1,000 Prize Contest Report book—both are free for the asking. Please send coupon herewith.

CYPHERS COMPANY SERVICE DEPARTMENT

BULLETINS

PROFITABLE POULTRY AND EGG PRODUCTION

CYPHERS INCUBATOR COMPANY

COUPON

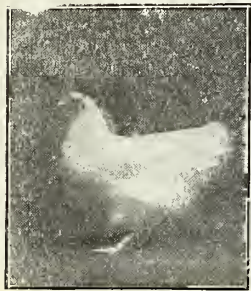
Cyphers Incubator Co. Dept. 13 Buffalo, New York

Gentlemen: Please send free, copy of your book, "Profitable Poultry and Egg Production" for 1913, and the full facts about Cyphers Company Service.

Name.....

Address.....

STONESTREET'S White ORPINGTONS and PARTRIDGE PLYMOUTH ROCKS



My Birds are up to date and are now in my yard and customers reap the benefits of my years of successful work. At Nashville, Paducah, Shreveport, and Columbus, Ga., in strong competition, open to the world, my birds captured ninety-nine prizes, including 21 firsts, 23 specials and 10 Silver Cups. Eggs from these champion birds are to be had at \$10, \$15 and \$20 per setting of fifteen. Unfertilized eggs returned within ten days replaced without charge. I pay all express charges. Good utility stock always on hand.

MRS. REGINALD STONESTREET

Nashville, Tennessee

Reference—First Savings Bank & Trust Co., Nashville, Tenn.

Our Breeders and Their Birds

At the Chattanooga show last month, Mr. J. G. Fletcher's winnings were as follows: Buff Rocks—1st, 2d cock; 1st, 2d, 3d, 4th pullet; 1st, 2d, 3d, 4th hen, and several specials.

The Alma Poultry Farm came in for their share of winnings at 1912 Birmingham Poultry show, getting 1st and 2nd cock on S. C. R. I. Reds, and 2nd cock on White Orpingtons.

With strong competition, Mr. H. L. D. Hughes, of Danville, Ga., has captured many good prizes this season

wherever he has shown. We predict much success for Mr. Hughes in 1913.

We call attention to the display advertisement elsewhere in this issue of F. P. Cassel & Son, Lansdale, Pa., in which they make a special parcel post offer of one and five pound packages of their "F. P. C." Chick Manna at greatly reduced prices, postage paid. Look up their ad.

We are glad to note the fact that Mr. Frank Riddle, of Birmingham, Ala., landed some good winnings in strong competition at the Birmingham show last month. He won 1st White Orpington hen, 2nd White Orpington pen and 2nd and 3rd White Rock pen. Success to Mr. Riddle.

At the Columbus, Ga., show, held

SOMETHING TO GROW ABOUT

"HEN-E-TA"

About 30% Tri-Calcium Phosphate
Popularly Called **BONE ASH**

NO OTHER BONE NEEDED

NO MORE BONE CUTTERS NEEDED

NO MORE BEEF-SCRAPS NEEDED

NO MORE CHARCOAL NEEDED

NO MORE OYSTER-SHELLS NEEDED

NO OTHER GRIT NEEDED

100 lbs. - \$2.25

500 lbs. - \$9.00

Balanced Ration Formulas Free

If you will give us your dealers
name and address.

HEN-E-TA BONE CO.

NEWARK, N.J. DEPT. 8 FLEMINGTON, W.VA.

the first of last month, Mrs. R. L. Dudley, of Columbus, won as follows on Anconas: 1st, 2d pen; 1st cockerel; 2d, 3d, 4th pullet; special for best display and cup for best cockerel and pullet by lady exhibitor. She only entered fifteen birds and they all won.

We had the pleasure of a brief visit recently from Mr. L. M. Barrett, of Morristown, Tenn. Mr. Barrett breeds Mottled Anconas and his birds are thoroughbred and ribbon winners. He believes in letting people know what he has for sale, and elsewhere in The Hen you will find his advertisement.

At the Southern International show, Atlanta, in 1911, Mr. George C. Fife captured 2nd pen in S. C. Buff Orpingtons, in a class of 11 pens. In 1912, 4th pen in a class of 15 pens. With Mr. Fife's experience in breeding S. C. Buff Orpingtons he is producing good stock and we bespeak much success for him.

The Hermitage Farm, of Hendersonville, Tenn., at the Southern International Poultry Show in Atlanta, won first pen on White Indian Runners, there being 43 pens in competition. The judge who handled this pen said that it was one of the best mated pens he ever had the pleasure of judging.

Mr. Geo. J. May, formerly of Kellerstrass Farm, Kansas City, Mo., and Aldrich Poultry Farm, Columbus, Ohio, is now connected with Briarcliff Farm, owned by Mr. Asa G. Candler, Jr., Atlanta, Ga. Mr. Candler has exercised a great deal of wisdom in

FOGG'S Single Comb WHITE LEGHORNS

ARE BRED FOR

Heavy Laying and Exhibition

Get our prices on breeders and young birds. We can please you. Our breeders this season are the finest lot we ever owned. Write us early about baby chicks and eggs for hatching. Our baby chicks are the kind that live and eggs for hatching will produce that kind. Send for Booklet and mating list now.

N. V. FOGG

Box A

MT. STERLING, KY.

Buff=WYANDOTTES=White

The finest lot we ever raised, bred from our winners at Madison Square Garden, Cincinnati, Louisville, etc. 1000 for sale at living prices. Special prices for early buyers, on selected breeders or exhibition birds. We can furnish winners and money-makers. Write your wants.

Power & Cablish SQUARE DEAL POULTRY FARM Box 532 J, Maysville, Ky.

Buff Ply. Rocks, 'Giant' Strain Bronze Turkeys, Indian Runner Ducks

Quality backed by years of careful breeding. Our birds are winners in our hands and customers at Louisville, Cincinnati, Chicago, Boston, Indianapolis and Atlanta. If you wish quality, combined with honorable treatment, we can fill your orders and at prices most reasonable. Stock in either variety mated, no kin, and in any number. Write for prices, etc.

J. C. CLIPP

=:-=

Box 700, Sault Ste. Marie, Indiana

GABHART'S WHITE LEGHORNS

Line Bred. Win at the big shows, Louisville, Lexington, Cincinnati, Atlanta, Knoxville, Kentucky and Tennessee State Fairs. Old and young stock for sale of the best quality only.

W. E. GABHART

Box M, Bohon, Kentucky

SPECIAL Combination OFFER

Industrious Hen

and any other paper in this list
for only

75 Cents

or any other two papers in this
list for only

\$1.00

We offer you your own selection
from the 17 Largest and Best
Exclusive Poultry Magazines in
the World, and covering every
particular section of the United
States.

Money saved is money earned.
We can send you The Industrious
Hen and any four for \$1.70, any
six for \$2.30.

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Illinois

Add 40 cents when American Poultry
Journal is included.

American Poultry World
New York

American Poultry Advocate
New York

Michigan Poultry Breeder
Michigan

Poultry Culture
Kansas

Poultry Fancier
Pennsylvania

Poultry Herald
Minnesota

Poultry Item
Pennsylvania

Poultry Keeper
Illinois

Poultry Success
Ohio

Reliable Poultry Journal
Illinois

Southern Poultry Magazine
Tennessee

Successful Poultry Journal
Illinois

Southern Poultry Journal
Texas

Inland Poultry Journal
Indiana

Western Poultry Journal
Iowa

Farm Poultry
Massachusetts

Remit by Express, P. O. Money
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The INDUSTRIOUS HEN
Knoxville, Tennessee



200 EGG INCUBATOR, \$3.00

No freight to pay. Actual hen controls everything.
No lamps, no expense, no costly mistakes. Over
550,000 sold. Thousands of testimonials. Agents
wanted. Free Catalog with Special Introductory Offer
Natural Hen Incubator Co., Sta. 11, Dept. A1 Los Angeles, Cal.

securing the valuable services of
Mr. May.

C. M. Williams, of East Chatta-
nooga, Tenn., at the recent show held
in his city won on Black Orpingtons,
1st, 3d hen; 4th pullet; 1st pen. On
Buff Orpingtons he won 1st, 2d, 3d,
4th cockerels; 1st, 2d hen; 1st, 4th
pullet; 1st pen. On White Orping-
tons, 2d, 3d cockerels; 1st 3d, 4th
hens; 1st pen, and many special
prizes.

Carr Bros., proprietors of Celtic
Poultry Farm, Vineland, N. J., inform
us that at the recent Philadelphia
show they won 1st cockerel and 3d pen
in the best class of White Wyandottes
ever exhibited in that city. Their ad.
will be found on the back cover page,
and it will pay you to read it before
placing your order for White
Wyandottes.

The Single Comb Black Minorcas
of Fred M. Zorn, of North Chatta-
nooga, Tenn., were very attractive at
the Hamilton County Poultry Show,
held in Chattanooga last month. On
ten entries he won eight ribbons and
five specials, in a strong competitive
class. He also won the gold leg band
for best Minorca cockerel in show.

At the Chattanooga show last
month, Mr. C. E. Barnes won on
White Wyandottes: 1st, 3d cockerel;
3d hen; cup for best male in show,
any age; A. P. A. Gold Medal for
best cockerel in show. On S. C. White
Leghorns he won, 1st, 2d cock; 1st 2d,
4th cockerel; 1st, 2d 3d, 4th pullet;
1st, 2d, 4th hen; special for best cock,
cockerel, hen and pullet in show, all
breeds competing.

We are afforded great pleasure in
mentioning the winnings of Mrs. L.
P. Eberhardt, of Elberton, Ga., one
of the most enthusiastic poultry rais-
ers the writer has ever met in a show
room. Her winnings in Southern
International show, Atlanta, on Black
Orpingtons, 1st and 5th pen, 1st cock,
1st pullet, 5th cockerel; White Orping-
tons 3rd and 4th pen, 1st cock, 3rd and
4th pullet, 4th and 5th cockerel.

Mr. Jno. Landis, of Edinburg, Ind.,
the popular breeder of Crystal White
Plymouth Rocks, informs us that he
has some extra fine birds that will
favorably compare with any breeder's
birds, and he offers special induce-
ments to purchasers. Mr. Landis has
been a breeder of poultry for the past
twenty years, which fact alone guar-

Greider's Fine Catalogue



and calendar of fine, pure-bred poultry for 1913.
This book contains many pages of poultry facts, 70
different varieties, some shown in natural colors,
all illustrated and described. Tells how to make hens
lay, raise and care for them, all about the Famous
Greider Incubators and Brooders. Shows photo of
the largest poultry farm in Penn. Prices of breed-
ing stock and eggs for hatching, and supplies with-
in reach of all. A perfect guide to all poultry
raisers. Send 10c for this noted book on poultry

B. H. GREIDER, Box 101, Rheems, Pa.

Poultry Profits Doubled

1 I bring 30¢ per lb.

1 I bring only 15¢

CAPONS
bring the largest profits — 100% more than other poultry. Caponizing is easy and soon learned. Capons sell for 30c. a pound, while ordinary poultry brings only 15c. a pound. Progressive poultrymen know these things and use

PILLING CAPONIZING SETS
Sent postpaid, \$2.50 per set with "Easy-to-use" instructions.

We also make Poultry
Marker, 25c. Gape Worm Extractor, 25c. French
Killing Knife, 50c. Booklet, "Guide for Caponizing," FREE.

G. P. PILLING & SON CO., 23d & Arch Sts., Philadelphia, Pa.

Crown Bone Cutter

FEED your hens cut green bone and get more eggs. With a **Crown Bone Cutter** you can cut up all scrap bones easily and quickly, and without any trouble, and have cut bone fresh every day for your poultry. Send at once for free catalogue.

WILSON BROS., Box 816, Easton, Pa.

Best Made. Lowest Price

POULTRY FENCE

22 1/2 Cents a rod for 48-inch fence. 22 1/2 Fewer posts and no base board or top rail required. Buy from the factory direct. Other styles of Poultry, Farm and Lawn Fencing. Large Catalog Free. Write today **Box 253 Kitzelman Bros, Muncie, Ind.**

FARM FENCE

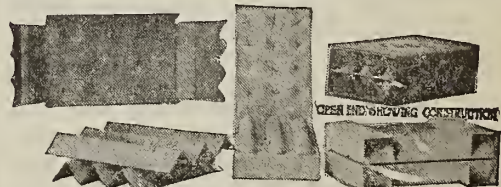
11 1/2 cts. a rod for a 26 in. high fence; 17 1/2 cts. a rod for 47 inch high stock fence. 28 1/2 cts. a rod for a 50-inch heavy poultry fence. Sold direct to the farmer on 30 Days **Free Trial**. Special barb wire. 80 rod spool, \$1.55. Catalog free **INTERLOCKING FENCE CO. BOX 36 MORTON, ILLINOIS**

BROWN POULTRY FENCE

STOCK-STRONG-RUST-PROOF

Costs No More Than Nothing yet will last five times as long. Made of extra heavy double galvanized, Rust Proof wires. No top or bottom boards and 1/2 less than half the posts required. **Click Tight—Bottom wires only 1 inch apart.** We have 160 styles, also Lawn Fences and Gates. We can save you money. Send for Catalog. **The Brown Fence & Wire Co. Dept. 37 Cleveland, O.**

Buy Diamond Egg Carriers



It is a fact and not a boast that eggs get the maximum protection in the Diamond Egg Carrier. Order today. Sample 25c. 15-egg size, dozen, \$1.50; hundred, \$11.00. **DIAMOND EGG BOX CO., 1104 New York Life Bldg., Minneapolis, Minn.**

Mandy Lee Incubator

has put chick hatching on a scientific basis. Heat, moisture and fresh air are *measured* and applied in right proportions to each other automatically. High heat has low moisture, low heat has high moisture. It is the incubator with the open-front-poultry-house plan of ventilation. Ventilation is perfect. Its automatic triple regulator never goes wrong. Send for the Mandy Lee Catalog.

Lee's Poultry Supplies Mean Better Poultry

Lee's standard poultry supplies are handled by leading dealers everywhere. Ask for them. If not at yours, write us.

Germozone Cures Roup, Colds, Canker, Swelled Head, Bowel Trouble, etc. Cuts down chick losses 90%. Standard remedy everywhere. Sample for 6c. **Price 50c.**

Lice Killer Kills vermin by fumes. No need to handle fowls. Simply paint roosts. Fumes go into fluff of feathers, cracks and corners. **Price 35c, 60c, \$1.00.**

Egg Maker Best of all foods to induce laying. Right ingredients, right proportion. Fine for growing chicks. **Price 25c, 50c, \$2.00, \$7.00.**

Write direct to us for practical free Incubator and Supply books.

GEO. H. LEE CO.
1113 Harney Street, Omaha, Neb.

Lee Poultry Supplies

Single Comb RHODE ISLAND REDS

PURE ARISTOCRATS. The richest colored strain of Reds in the World. Aristocrats swept Chicago. Send for catalogue showing photos of some of the best Reds in the world. Eggs \$3.00 and \$5.00 per 15. \$15.00 and \$20.00 per 100. Fine cocks and cockerels for sale cheap.

WARNER LEWIS, Red Specialist -- COMO, TEXAS

Show Birds---Breeder's

If you are looking for fine stock in S. C. White and Brown Leghorns, White Wyandottes, Barred Rocks, S. C. Black Minorcas, Light Brahma, Cornish, S. C. Rhode Island Reds, White Cochins, Bantams, Mammoth Pekin and Indian Runner Ducks, then write us. Our prices are reasonable, quality considered. Breeders for the past 19 years.

NEVIN POULTRY YARDS, Wardin Bros., R. 7, Charlotte, N. C.

antees to the purchaser that Mr. Landis will sell them only good stock. See his advertisement in this issue of The Hen.

Among the large number of exhibitors at the Birmingham show last month, Mr. Walter McAdory was one of the most successful winners, getting several specials and silver cups. Mr. McAdory is one of the largest breeders in the South of both utility and fancy stock. See his ad. elsewhere in this issue.

While we feel it is never too late to do good we are very much pleased to mention the 1912 winnings of the Aldrich Poultry Farm of Columbus, Ohio; at two large Southern shows, Atlanta, Georgia, Poultry Association, October, they won on White Orpingtons, 2nd and 5th cock; 2nd hen; 1st and 3rd cockerel; 4th pullet; 2nd pen; special for best cock in show. Augusta Ga: 3rd and 5th cock; 1st and 3rd hen; 3rd and 4th cockerel; 4th and 5th pullet; 2nd and 3rd pen.

Messrs. King & Hyde, proprietors of the Hydrangea Poultry Farm, Sum-

merville, S. C., won on White Rocks at the Charleston (S. C.) show as follows: 1st and 4th hen; 1st, 2d, 4th pullet; 2d cock; 1st, 2d and 4th cockerel; 1st pen. On S. C. White Leghorns they won 1st, 2d cock; 1st 2d and 4th cockerel; 1st, 2d, 4th pullet; 1st, 2d, 4th hen; silver cup for best pen. See their display ad. elsewhere in this issue.

The winnings of Buschmann-Pierce Red Farms, Carmel, Indiana, at the Great Chicago show on their Rose Combs was 70 points for display; their nearest competitor won only 28 points. They won more than their next three nearest competitors combined. This shows the quality of their stock. On the last day of the Chicago show they bought out Owens Farms, and can supply anyone that desires the "Sensation" line of Rose Comb Reds with stock or eggs, as they will keep these two blood lines separate.

Mr. T. L. Little, of Camden, S. C., sends us the following lists of his winnings on White Wyandottes thus far this season: At South Carolina

WHITEWASHING
and disinfecting with the new
"Kant-Klog"
Sprayer
gives twice the results with same labor and fluid. Also for spraying trees, vines, vegetables, etc. Agents Wanted. Booklet free.
Rochester Spray Pump Co.,
206 Broadway, Rochester, N. Y.

State Fair, Columbia, S. C., won 1st cock; 1st, 2d, 3d hen; 1st cockerel; 1st pullet; 1st pen. Trophy cup for best pen in show. At Camden, South Carolina, show, won 1st, 3d hen; 1st, 2d, 3d pullet; 1st cockerel, 1st pen. Trophy cup for best male bird in show; trophy cup for best female in show; trophy cup for best pen in show. At Savannah, Georgia show, won 1st cock; 1st, 3d hen; 1st cockerel; 1st, 3d pullet; 2d pen. Specials for best cock, best hen, and best pullet in Wyandottes class. Gold special, best display Wyandottes; all varieties competing. At Palace Show, New York, 1912, won 2d cockerel.

Perhaps no exhibit in the Chattanooga show attracted more attention than did the Partridge Rocks exhibited by Jake M. Brown, of Chattanooga. Every bird exhibited by him was especially fine and does credit to this beautiful breed of chickens, which is attracting so much attention at the present time. Very few if any exhibits won as many prizes in proportion to the number exhibited as did the birds of Mr. Brown. He won first in every class he entered and also first pen. Mr. Brown introduced this breed of chickens into Chattanooga some time ago and states that it is his intention to keep improving his stock until his flock cannot be surpassed anywhere.

Mr. W. F. Kilman, Bald Knob, Ark., breeder of Rhode Island Reds, informs us that his winnings at the Arkansas State Show, held at Little Rock, Nov. 25-30, 1912, were as follows: 1st, 2d, 4th, 7th cockerel; 1st, 3d, 5th, 7th pullet; 2d cock; 1st, 2d pen; A. P. A. Gold Medal for best cockerel in show; Silver Medal for best cockerel in American class; diploma for best male under one year old; gold leg bands for best parti-colored male and female; cash special for best 15 parti-colored birds; special for best pullet, and three club badges. These are fine winnings, and Mr. Kilman must have the quality birds in order to obtain them. See his ad. elsewhere in this issue.

Our friend Mr. Clayton I. Ballard, the Indian Runner Duck man, of White Pine, Tenn., was in the city a few days since and made a brief call at The Industrious Hen office. Mr. Ballard is one of The Hen's faithful friends, having used her advertising columns regularly since she was hatched, more than nine years since at Madisonville, Tenn. Mr. Ballard has true imported stock and believes

BEST FOR LAYERS **RAINBOW** BEST FOR TABLE
PARTRIDGE ROCKS
THE ROCKWOOD FARM, BOX T NORWALK, OHIO

ANCONAS AND WHITE MINORCAS

We have some fine young stock for sale at prices that are certainly tempting. Drop us a postal and let us tell you about them. Our best have made the best records in the big Southern shows for the last three years and were among the leading pens in the big Kentucky Egg Contest. We are mating the best pens we have ever had for 1913. Let us book your order now for eggs and baby chicks. Satisfaction guaranteed.

DISMUKES & ARRINGTON Dept. H Castalian Springs, Tenn.

in giving his customers full value for their money. In conversation with him, Mr. Ballard informed us that his advertisement in The Hen during the last year had sold for him more than \$1,000.00 worth of stock and eggs. What The Hen has been the means of doing for Mr. Ballard, she can also do for others. Try an ad. and be convinced.

Wm. Cook & Sons, originators of all the Orpingtons, Scotch Plains, New Jersey, made a very fine winning in strong competition of Orpingtons, at Shreveport, La., with Northern and Eastern breeders there, as well as ourselves. They won the following: In Buff Orpingtons, first and second cockerel, first, second and third pullet, first hen, and first pen. In Black Orpingtons, first cock, first and second cockerel, first and second pullet, and first hen, and first pen. In White Orpingtons, first and second cockerel. Their Mr. P. A. Cook, owner of the above firm, sold over six thousand dollars worth of Orpingtons at the Birmingham, Alabama, show. They also made an excellent winning at Alentown, Trenton, Memphis, and Atlantic City this season. They report that their customers are winning more first prizes than ever this year, with birds sold to them, and hatched from our eggs. If one cannot afford to buy stock from this firm, it is an excellent idea to purchase some of their best eggs as you will then be liable to be among the winners next season. Don't forget to send 10c for their illustrated catalogue which contains history of the origination of the Orpingtons, and hints on poultry keeping. Also mention that you saw the ad. in *Industrious Hen*. This firm has been established 39 years and their business is on the increase every year, which means they have been giving satisfaction to the public all this time. This should mean something to you when considering where to place your order. They give advice free. If at any time any of our readers are near New York, or there, they will be well repaid if they will visit this plant, where they will not only see the finest collection of Orpingtons in the world, but the finest display of land and water fowls, and wild animals.

PATTON'S WHITE RUNNERS SWEPT THINGS.

The Southern International show, Atlanta, Dec. 16-21, 1912, was the largest White Runner show ever held in the world, there being three hundred and eighty birds on exhibition from all parts of America.

On ten single entries of young birds, Patton's birds won first young drake, in a class of 59 drakes competing; and first, second and fifth young ducks in a class of 67. No other ex-



125 Egg Incubator and Brooder Both For \$10

Why pay more than our price? If ordered together we send both machines for only \$10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating, Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay. **WISCONSIN INCUBATOR CO., Box 57, Racine, Wis.**

hibitor won over one first. The Atlanta Georgian of the 21st said:

"One of the most phenomenal winnings ever made by a Southern breeder was that of J. C. Patton, of Charlotte, N. C., who exhibited ten young White Indian Runner ducks, taking first prize drake; first, second and fifth pullet in a class of 59 drakes and 67 ducks, made up of the best in the country."

This remarkable winning follows similar records at Hagerstown, Augusta, Richmond, Raleigh and other shows.

Mr. Patton claims the best White Runners in America, and states that his customers have been equally successful at the biggest shows of the country this year.

He reports a big demand for eggs even this early, at eight dollars per setting. If interested, write J. C. Patton, Box 606, Charlotte, N. C.

Cecil J. Logan, proprietor of the Alma Poultry Farm, R. 4, Birmingham, Ala., under date of December 24, 1912, wrote us as follows:

"At the December show of the Alabama Poultry Association, held here December 10-14, we entered one Orpington cock, one Orpington pen (young stock) and two S. C. Red cocks, winning first and second cock on our Reds and second cock on the Whites. Our pen consisted of very young stock which accounts for their failure to get a place. Competition was extremely strong in the Whites, and we feel very proud of the fact that Wm. Cook & Sons were the only ones beating us. This cock of ours was the only Orpington cock winning a place that was bred and raised by a local exhibitor, all the other winners being bought and shipped in from the Eastern breeders. We have some very nice young stock sired by these winners which we are offering at a bargain, as our house room is limited and we must get them out of the way."

Mr. Logan's ad. will be found elsewhere in this issue of the Hen.

TO WHOM IT MAY CONCERN.

This is to certify that we have this day sold to the Buschmann-Pierce Red Farms our entire flock of R. C. R. I. Reds, including all our winners and selected breeders. Among the winners being 1st cock; 2nd hen; and 1st pen at Madison Square Garden

S. C. WHITE ORPINGTONS KELLERSTRASS

S. C. RHODE ISLAND REDS RED RAVEN STRAIN

Our winnings at the Birmingham shows for the past two years demonstrate the quality of our stock. Our winners are all home raised; we do not buy our winners. We have to our credit 4 firsts, 4 seconds, 2 thirds, 2 fourths, and 2 fifths. Our big, blocky Orpington Cock, winner of second at our last show, defeated many high priced Eastern birds; he being the only home raised cock winning a place.

Our Orpingtons are the low, blocky, fast growing kind so hard to get, and so much desired.

Our S. C. Reds are the deep, rich red kind with plenty of type. Our famous Red Cock is the winner of three firsts and one second, being defeated only by a cock bird sired by himself.

Some fine stock sired by our winning cock birds at \$10.00 to \$25.00 a trio. Cockerels at \$5.00, \$7.50 and \$10.00.

Pens now mated containing our winners and many other exceptionally good birds.

Eggs \$3.00 per 15. Special Mating \$5.00. Baby Chicks \$3.00 and \$5.00 per dozen.

ALMA POULTRY FARM
R. F. D. No. 4, Birmingham, Ala.

THE SOUTHERN PLANTER

The South's Oldest, Largest and Best Farm Magazine, and THE INDUSTRIOUS HEN, both one year for 50c.

INDUSTRIOUS HEN CO., Knoxville, Tennessee

1911; the cock that won 3rd at New York, 1911; also first at Nashville and Memphis, 1912; and the first Memphis cockerel, 1912. This flock is one of the finest in America and added to their already great flock will make them unbeatable.

(Signed) **OWENS FARMS**
Maurice Delano, Mgr.

Farmers are beginning to wake up to the fact that the mongrel hen is passing away in favor of the pure breed.

A hen, like any other old thing that can and won't, should be made to get busy.

GENUINE IMPORTED RUNNERSALL..... VARIETIES

We are direct importers of the true Indian Runner duck. We have the grandest pair of imported Fawn and White Runners in the United States that we imported direct, 1912. A limited number of eggs from this pen for sale. Your chance to get some of the finest Runners in the world. Won all firsts at the Appalachian Exposition, 1910 and 1911.

20 acres devoted to standard bred S. C. WHITE LEGHORNS and S. C. BUFF ORPINGTONS. Write for FREE CATALOGUE. The finest duck catalogue ever issued.

CLAYTON I. BALLARD

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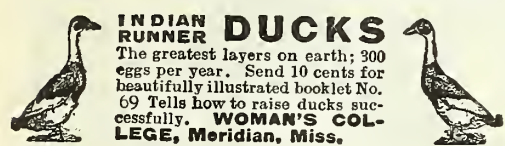
Box 71

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WHITE PINE, TENNESSEE

GENUINE WALTON STRAIN ENGLISH Indian Runner Ducks

Winners of 1st and 4th Cockerel and 2nd Pullet at Atlanta, December, 1912. Prolific layers of large WHITE EGGS. Stock and eggs for sale. RESTHAVEN POULTRY FARM, F. O. ALEXANDER, Owner. P. O. Box L. C., College Park, Georgia.



INDIAN RUNNER DUCKS
The greatest layers on earth; 300 eggs per year. Send 10 cents for beautifully illustrated booklet No. 69 Tells how to raise ducks successfully. WOMAN'S COLLEGE, Meridian, Miss.

FAWN AND WHITE

INDIAN RUNNER DUCKS

White Egg and Exhibition Strain. I am now booking orders for eggs, ducklings and stock for spring shipment. \$2.00 1st pen; \$1.50 2nd pen. Write me your wants. DR. J. M. MCWILLIAMS, Box 461, Fayetteville, Tenn.



Standard

Fawn and White Indian Runner Ducks, best in the South. WINNERS wherever shown. Layers of snow white eggs. Eggs, \$2.00 per dozen. MRS. W. J. SPRIGGS, Mulberry, Tenn.

Water Fowl and Turkeys

Cumberland White-Egg Indian Runners as Layers.

During times of high prices for eggs a bountiful supply is appreciated by all breeders. The Indian Runner seems to fill a gap in the egg shortage period that occurs every fall. A Pennsylvania friend writes me that nine of her Penciled Runners (yearlings) did not stop laying altogether during the moult and for 39 consecutive days previous to October 28, 1912, had laid nine eggs daily without a break, with no signs of stopping. During the same period a flock of 40 hens laid only from three to five eggs daily; quite a contrast; besides the duck eggs sold for five cents per dozen more. Equal care was given.

A New York friend writes me he is sending his Penciled Runner eggs to a Broadway hotel in place of Leghorn eggs, as his hens are not laying. Their delicate flavor is appreciated by the best class of customers. He gets fifty cents per dozen at the farm. This letter was written in November, 1912.

Another New York letter brings

me word of a flock of Cumberland Penciled Runners (30 in number) that were laying right along during November, 1912, from 23 to 26 eggs daily.

From Texas I have a letter stating that at a large local show the Cumberland Penciled Runners won everything in the way of prizes.

Now about November 25th I have word that a lady in good old Maryland is getting from 7 to 10 eggs daily from 10 old Runners, and June hatched ducks began laying November 19th.

I had a duck hatched June 3, 1912, lay its first egg October 21, or when it was just 4 months and 2 weeks old, showing that they "have the habit."

These are a few current facts concerning the Cumberland Penciled Runners, and in every case stated nothing but white eggs are produced. This should have weight with thoughtful breeders and those intending to take up Runners.—W. C. D.

GREEN OR TINTED INDIAN RUNNER DUCK EGGS.

Do all Indian Runners occasionally lay green or tinted eggs? I can answer the above most positively and emphatically. No.

There are strains of Runners which never lay green or tinted eggs. I have heard breeders of American Standard Runners say, "they occasionally get green eggs and that all breeders of Runners do, only some will not admit it."

The real Runners, the English Penciled (Cumberland) Runners, which is the true and original type of the breed, have been bred in Cumberland County, England, for seventy or eighty years, and the pure strains of these Runners lay no tinted eggs nor have they ever done so. These Runners having been bred in England so long are called an English breed. On their arrival in the United States, they were well received as an ideal farmer's fowl, and also won prizes wherever shown. This was under the old 1905 Standard, which was modeled after the old English Poultry Club Standard.

Some breeder bred in blood alien to the breed which produced a lighter shade of Fawn color with no penciling, and drakes with Fawn heads and rumps contrary to the plumage of the English Penciled Runner. These Runners made quite a sensation and many prominent breeders adopted them and



S. C. WHITE LEGHORNS, INDIAN RUNNER DUCKS, RUFUS RED, BELGIAN HARES.

Stock and Eggs for sale at all times. Send 3c in stamps for booklet and catalogue, tells how to make these breeds pay.

Kling & Hawkins, Poultry Yards and Rabitry. Box "E"

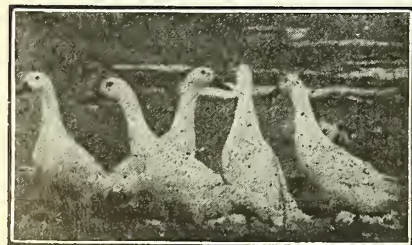
Meridian, Miss.



We beg to announce to the poultry world the purchase of the entire flock of Blue Orpington Ducks of the Sunswick Poultry Farm, together with their ribbons, winnings and good will.

These Blue Ducks are the equal of the Buff Orpington Ducks and when combined with our choice lot of Buffs places us in front ranks as Orpington Duck breeders. We can supply stock and eggs from either, and solicit your correspondence.

J. H. WENDLER Roselawn Farm, Lakeland, Fla.



RHODES' WHITE INDIAN RUNNER DUCKS

ORIGINATOR OF THE RHODES STRAIN

Great layers of large white eggs. Can spare a few choice breeders. Eggs, \$5.00 per 12.

MRS. A. N. RHODES

New Castle, Ind.

SNOWFLAKE WHITE INDIAN RUNNER DUCKS

MRS. E. E. ESHBACH

--

1402 STURM AVENUE

--

INDIANAPOLIS, INDIANA

Winner of First Ribbons at Great 1912 Atlanta Show Prize Winners Always. Heavy Layers of Pure White Eggs. Breeding and Young Stock for Sale

when the 1910 Standard came out it described the new cross in preference to the original English Penciled bird. Most of the Standard Light Fawn birds at first laid green eggs, and all of the breeders of Standard Runners I am acquainted with tell me that "they get some tinted eggs," although I read of those who claim they never get a tinted egg.

Our English Runners lay only white eggs, as do all the true Cumberland strain. Mr. J. W. Walton, Secretary of the English Indian Runner Duck club, and who is the best of authority, says that if these Cumberland Runners were bred for a century they would not produce a green egg layer. Mr. Walton and a fellow breeder have recently obtained some Runners direct from India the source of the original Indian Runners. These new Runners are the purest in blood and best in type of any in the world, and he says that among them are layers of both white and pale green eggs. While we recognize the value of the new Indian blood we shall not introduce any of it until they have proved themselves white egg layers. If it is as easy to breed out the green eggs as some assert, this will no doubt soon be accomplished.

The White Indian Runners also lay a pure white egg when they are pure in strain and are free from Pekin blood. One cannot be too careful in securing the foundation stock as more failures are made here than at any other point.—Mrs. Laura Shorts, Townville, Pa.

AN APPEAL FOR ATLANTIC CITY

Vineland, N. J., Dec. 23, 1912.
Industrious Hen Pub. Co.,
Knoxville, Tenn.
Gentlemen:—

Will you kindly print the following in your January issue of your valuable journal:

The New Jersey Branch of the American Poultry Association hopes that every member of the association will vote for Atlantic City. Inasmuch as St. Louis, Denver and Nashville have had the last three conventions, Atlantic City is the logical place to hold the next convention, sentiment laid aside.

Furthermore, it is a well known fact that Atlantic City is the convention city of the United States. Ample hotel accommodations at reasonable rates can always be obtained. No city offers better railroad rates than Atlantic City during the summer season. This is a well known fact.

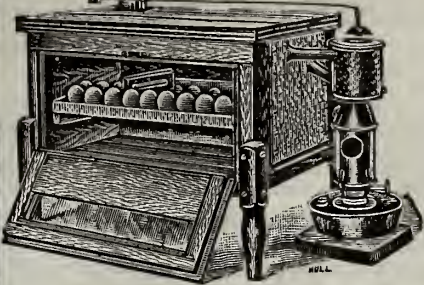
The big poultry plants of the East are within an hour to three hours ride—New York City, the metropolis of the East, is but three hours—Philadelphia, one hour, with almost hourly trains.

A reception, clam-bake, chair ride on the famous boardwalk, a bath in the ocean, good lectures by the best experts in the country, are a few of the things the New Jersey Branch has outlined for the entertainment of the members.

The New Jersey Branch is making every effort to make this the largest and best convention ever held, which is saying much in view of the past

PETALUMA INCUBATORS AND Brooders

\$8.50 63 EGGS WE PAY FREIGHT



are used more extensively throughout the world than any others, hatching Hen, Duck, Turkey, Goose, Ostrich, Alligator, and all other kinds of eggs.

CALIFORNIA REDWOOD, the best for Incubators, is used. We are close to the great Redwood Forests and get the best. You want the most reliable incubators and brooders. Then learn about the Petaluma before buying.

Persons ordering "Day old Chicks" from the hatcheries are specifying "these chicks must be hatched in Petaluma Incubators." That tells its own story.

EGG CITY INCUBATORS are the best and cheapest hot water incubators in the world. Model 63 eggs for \$8.50 and We

Pay Freight, is the greatest bargain ever offered in a small hot water incubator. Order right now or at least send for a circular, because you ought to know all about it.

Finest Catalogue ever printed, **FREE**. Booklet, "How it all came about," mailed free. It will interest you. Tells who is the oldest maker of Incubators.

PETALUMA INCUBATOR COMPANY
Box 381 Indianapolis, Ind. Box 324 Petaluma, Calif.



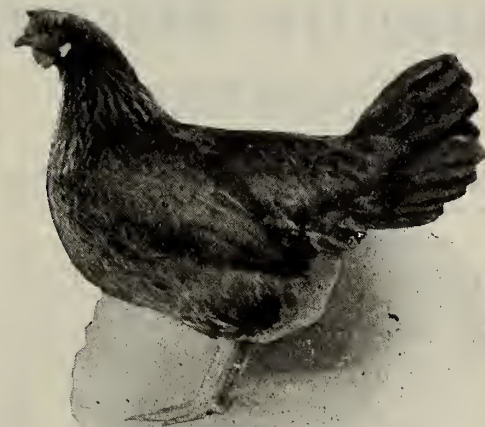
conventions at Denver and Nashville. One thing, the members of the American Poultry Association can rest assured that they will have cooling sea breezes and a dip in the ocean should a hot spell be on. One can always find comfort on the piers and boardwalk in the hottest weather.

The New Jersey Branch welcomes all the members and if they are not entertained to their satisfaction, it will be because Atlantic City has lost its charm and the members their ability.

Vote for Atlantic City where cool breezes sing, the State of big poultry plants and big things.

Yours very truly,
J. H. WOLSIEFFER,
Chairman Publicity Committee.

Do not try to force nature. In fitting young fries for the market give the chicks proper food, plenty of room, clean quarters, freedom from lice, and nature will do the rest.




2nd Atlanta Hen. Bred and Owned by
J. H. Henderson, Knoxville, Tenn.

A CORRECTION.

In last month's issue of The Hen, we made an error in the winnings of Mr. J. H. Henderson's birds at the Atlanta Show. The correct winnings were 1st and 2d hen, and not 1st hen and 2d pen. Mr. Henderson is the popular breeder of Brown Leghorns. See his ad. elsewhere in this issue.

SINGLE COMB REDS
CALLAHAN & SON
EAST POINT
GA.



WE ARE
PRODUCING
BETTER REDS
EACH YEAR

STOCK
AND
EGGS
CATALOG
FREE

FANTAIL
PIGEONS
ALL COLORS.

"QUALITY"
OUR MOTTO.

CARTER'S BROWN LEGHORN

Have won over 500 premiums at 30
big shows under 25 National Judges.
Compare this record with all breeders
before placing your order for Cocks,
Hens, Cockerels, Pullets or breeding
pens. Free circular tells it all to you.

E. E. CARTER
Dept. I. H., Knoxville, Tenn.

Chicks that Live

Hatch Chicks that Live—Bigger Chicks—Stronger Chicks—Healthy Chicks—and More of Them

Your profits come from the chicks that live, Mr. Poultryman—not from the chicks that die. A big hatch doesn't mean much to you unless the chicks live and thrive—and unless you can hatch chicks **THAT WILL LIVE AND THRIVE**—you can't make money raising poultry. 50 per cent hatches and raising 50 per cent of the chicks you hatch isn't successful poultry raising—yet many breeders are doing no better than that—and think they are successful.

YOU CAN HATCH EVERY HATCHABLE EGG and HATCH CHICKS THAT WILL LIVE

if you use a Buckeye Incubator. Thousands are doing it—hatching great, strong, healthy chicks that start to grow the minute they leave the shell and keep on growing—without the aid of tonics and medicine to keep them alive. With a Buckeye Incubator you can hatch eggs that other incubators cannot hatch and get larger chicks than can be hatched in any other incubator or under a hen.

You cannot go wrong with a

BUCKEYE INCUBATOR

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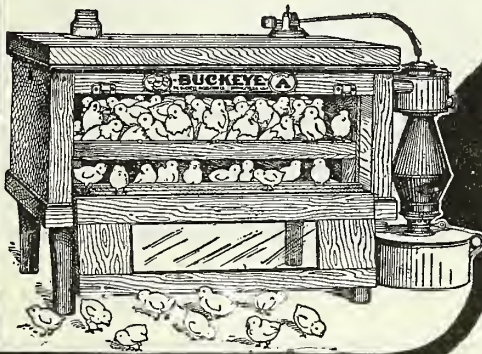
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Buckeye Incubators are made in five sizes, 60 eggs to 350 eggs—and are equipped with every desirable device to hatch chicks that live. (The big 10,000-egg machines use the Buckeye principle of hatching and construction.) They are **GUARANTEED** to hatch every hatchable egg and are

it is time well spent. Do not delay. With the catalog we will send you information about the dealer who will show you a Buckeye in operation, and testimonials from every state in the Union.

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INDUSTRIOUS HEN CO., Knoxville, Tenn.

Poultry Disease Department

By J. A. THORNHILL, Hartselle, Ala.

Q.—Will you be kind enough to favor me with an answer to the following questions: (1) Do you think that clabber fed to hens will decrease the egg supply? (2) What do you think of Hen-E-Ta Bone? (3) Is the vitality of the Buff Leghorns the same as that of the White and Brown?—Mrs. G. W. C., Brentwood, Tenn.

A.—(1) No; clabber is one of the best foods for poultry. One way to feed it is to mix enough of the clabber into the mash to make it a crumbly mass. Another good way is to pour the clabber into a sack and hang it up somewhere until the whey drips out, then feed the curd in troughs. The clabber or curd will increase the egg supply, but will not answer for beef scraps. (2) Hen-E-Ta Bone is an article extensively adver-

tised and will be found all right for all poultry. (3) There is positively no difference in the vitality of the different breeds. The only difference when noticeable is in their care and keeping. Some breeders do claim in their circular matter that the breed they keep are healthier than other breeds, but there is no truth in the statement.

Q.—I have a peculiar case to put before you. We had 3 Indian Runner ducks and 2 Pekin. The Indian Runners have been very active and particularly were so yesterday—until about 5 o'clock last evening the cook came in, saying something was wrong with the ducks. I went out and found one on its back and its neck twisted and one was in the pan of water we keep for them, struggling with its wings and its neck all in crooked shape. Both seemed to be having regular convulsions. At four o'clock they were perfectly spry and at five-fifteen all were dead. The pan we kept water for them in was very shallow. Do you suppose that in trying to put their heads under the water they could have twisted their necks? That is the only thing I can surmise except that some Pearline water was thrown out at four o'clock and at that hour I sat a pan of milk out in the yard for the chickens. The two we found in the pan of water were the only ones to get sick, and at four o'clock they were the two most active of the five and had become regular pets. Awaiting your reply, (Miss) E. R., Moss Point, Miss.

A.—I believe that your ducks were poisoned. They no doubt drank too much of the "Pearline" water. They might have gotten poison corn or bugs. Ducks with severe indigestion act as yours did, but indigestion does not come on so suddenly. Ducks should be fed green food, given plenty of clean, fresh water and fed regularly on sound grain. They should be fed sand, their sleeping quarters kept clean and never allow them to roost on damp, cold ground.

Q.—Will you please tell me the best month in which to set Leghorn eggs?—E. L. M., Bronwood, Ga.

A.—February, March and April. June does very well.

Q.—Our chickens are sick with roup and are not doing well, even with the best of care we bestow upon them. Please tell us our failings in taking care of them?—Ray, Clanton, Ala.

A.—Ray, you must give us a little more light on your housing, feeding and care next time you write. Your hens may be lousy, or the roosting quarters may be unsanitary. Some claim that roup is the result of colds, which in a sense is true, but there is something of more importance than a cold behind a case of roup and all physical ailments of animal life. The mechanism of poultry is so constructed when in a healthy condition, that disease germs are easily thrown off, but when fowls roost in filthy houses, eat unwholesome food, compelled to support lice and mites, allowed to shift in the cold and damp weather for themselves, and many other minor irregularities, the system is so badly

LaFollet's WEEKLY MAGAZINE

and *The Industrious Hen*, both one year, and a copy of "Hen and Chicks" for \$1.25. Send orders to *The Industrious Hen*, Knoxville, Tenn

lowered that it is susceptible to any and all ailments. Clean out your poultry house, change the feeding, give them green food and keep them in clean, dry quarters. Give them a reliable roup cure, and into the mash every other day put a teaspoonful of Cayenne pepper to 15 hens.

Q.—We are building a small poultry plant according to directions and plans you sent us last year, and when complete, wish to stock it with the best laying strain. What breed would you suggest and where can we get it?—J. T. B.

A.—There are no special breeds for egg production. Some succeed with a breed that others condemn as worthless. Look over the advertisements in "The Industrious Hen" for the breed you decide on and before placing your order or sending any money for the birds, compel the breeders to guarantee to send you good, healthy stock. The quality of each bird, or the whole lot you order will, of course, be governed by the amount of money you wish to expend for them. I would secure good stock, for you will find them in the end more profitable.

WORMS IN FOWLS.

There are various kinds of worms that work destruction in your fowls. You often think it is cholera when it is some deadly species of worm. It is said that no less than twenty-five different kinds of tape worms inhabit poultry. The way to get rid of these pests is to thoroughly clean up your premises. If you have any sick, isolate or destroy them. To those not too far gone, administer half a teaspoonful Epsom salts to each fowl on empty crop and follow with a teaspoonful of turpentine. Every few days more give turpentine.

TUBERCULOSIS.

Poultry, as well as other farm animals and members of the human family, are subject to tuberculosis and it should be the object of every poultry raiser to fight this disease.

The University of Illinois, Champaign, Illinois, has just issued a circular No. 158, which while it has more to do with dairy tuberculosis, still has some information upon this subject which is worthy the consideration of all. Send for a copy.

While some flocks of chickens may have the disease already introduced, by proper care it can soon be eliminated.

The greatest enemy of tuberculosis seems to be pure air and when in addition you add light and sunshine you can keep the disease almost dormant, if not effect a cure.

POINTS TO REMEMBER.

When the excrement secreted by the kidneys, which is normally pure white, appears yellow, though the droppings are solid and the bird appears perfectly healthy, look out for the bowel trouble.

When the crop is hard, distended and unyielding there is danger of the bird becoming crop bound.

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Direct
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Chicks
Successfully
Brooded around one Stove

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Saves Nine Tenths The Work

Just $\frac{1}{10}$ the work if you use the Simplex Brooder Stove.
 $\frac{1}{4}$ the operating expense. $\frac{1}{2}$ the investment. $\frac{1}{100}$ the worry.

Nearly Doubles What You Raise

Bring through to maturity hundreds of chicks that you would other-wise bury. Get more money and do less work.

Why break your back when you can save 90% of the work with a Simplex Brooder Stove. You are spending many laborious hours caring for a few hundred chicks in small old-style hovers and brooders. Save that energy. No more daily cleaning of small brooders. No more smothered chicks. No more dirty, smoky, unreliable lamps. No more costly, cumbersome heaters and pipes.

The Simplex Brooder Stove is simple, safe, reliable, inexpensive and best of all it increases your profits by decreasing mortality. It solves the brooding problem. You will have happy, contented, healthy chicks going to roost young and without loss or bother.

Burns cheap, low-grade kerosene in direct contact burner. Temperature automatically held at 90 degrees by wonderful regulator. Illustration shows 1100 chicks sleeping around stove with backs to heat and heads away. They instinctively get just right distance and back up to heat

when cold and move away when weather moderates. You can go to bed early and sleep all night certain that the Simplex and nature are working together to make profit for you. The Simplex is the stove that has proven so successful in California. It is the only one with a direct contact burner and is fully covered by patents.

Write today for illustrated descriptive catalogue giving full information about the Simplex Brooder Stove system of raising strong, healthy chicks with one-tenth the work and one-fourth the expense, and for our money-back guarantee.

Our catalog is free and gives the experiences of users under most severe conditions.
SIMPLEX BROODER STOVE CO. 122 Fourth Street, Grand Rapids, Michigan

When the discharges are streaked with blood it is time to give preventives for diarrhoea.

When the joints are hot and swollen and the fowl is disinclined to stand, rheumatism has taken hold.

When the nostrils are clogged with dirt and the eyes water, ward off possible cases of roup by timely treatment. If the case is bad, apply the hatchet.

When a bird is lame in one foot and a small swelling is observed, remove it to a place where there are no roosts, and compel it to roost on some straw or other material. It is bumble-foot and is cured in this manner.

When a hen drops down behind, goes to the nest often but does not lay,

she is suffering from a disorder of the oviduct and might as well be killed and eaten.

When a bird has a leg weakness with no disorder of the liver, feed lighter and give plenty of bone-forming food.

When a bird has difficulty in breathing it is well to look out for pneumonia.

When a fowl sneezes, waters slightly at the eyes and nostrils and the face puffs up, it is a common cold. When accompanied by rattling it is bronchitis. Difficult breathing, pneumonia. Canker in the mouth, diphtheria.

When the discharges from the nostrils are profuse and ill-smelling it is

SUNNY BROOK ORPINGTONS

BLACK---BUFF---WHITE---BLUE

Are the big massive, true-to-type kind that will please you every time. Fine head points and superior color are just as truly theirs. Blood of Atlanta, Philadelphia, Chicago and Madison Square Champions, correctly mated now for chix that will win the blues next season.

National Buff Orpington Club Show—Birmingham, December 10-14, 1912—5th cock, 3rd cockerel, 1st hen, 2nd pen and Special Best colored female; 1st cock, 4th pen on Whites; 4th and 5th cock, 2nd and 4th hen, 3rd and 5th pullet, 4th cockerel, 3rd and 5th pen. Blacks—Every black entered in the ribbons but two. 2nd pen Blues.

Eggs, \$3, \$5, \$10 and \$25 per 15. Every pen headed by a winner.

No farm South is in a position to so certainly set you right on Orpington breeding—none that can give you now so much real value for your money. Address

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J. H. HENDERSON, Knoxville, Tennessee
BREEDER

BROWN LEGHORNS

SINCE 1890

Experience Counts

YOUNG and OLD STOCK FOR SALE

roup. Looseness of the bowels usually accompanies this trouble.

Greenish discharges, turning to frothy white, are given as a symptom of cholera.

A dark, purple coat indicates congestion of the liver.

FACTS ABOUT GAPES.

Gapes are produced by a small worm which is a parasite on the common red worm which the chick eats. Gapes are worse in wet weather, because red

worms then come out of the ground and are eaten. The gape worm hurts none but small chicks, into whose windpipe it makes its way after being swallowed. The reason chicks do not

but this takes too much time. The only practical way is to prevent the trouble by keeping the chicks on a wood floor or sheltered dry ground, where they can get no worms till eight weeks old, when the parasites cease to hurt them. Moving your brood to fresh ground often has the same effect. It would always do so, if you could be sure the new place were not also infected with the gape worm.

FROZEN COMBS AND WATTLES

Frozen combs and wattles are, as every poultryman knows, a very common occurrence this time of the year. In the Northern States the appearance of thousands of valuable show birds are ruined annually by the cold. Much can be done to prevent this trouble, but nothing can be done that will put a badly frozen comb or wattles into their normal shape and condition again. The first and best preventive is, of course, proper housing; the second is keeping the combs and wattles smeared with vaseline. The latter method is effective in preventing evaporation and in preventing the wattles from getting wet when the bird drinks.

As soon as an afflicted bird is discovered, thaw out the frozen parts at once with snow or by rubbing with the fingers smeared with vaseline, then apply twice daily an ointment made as follows: Vaseline, 5 parts; glycerine, 2 parts, and turpentine, one part.



have gapes everywhere is that there are no gape worms in some places. There is no special cure for gapes. You may draw the worm out of the chick's windpipe with a horse-hair,

Charcoal is a splendid thing to have within handy reach of your birds.

The cold storage egg never is a fresh egg.

HEN and CHICKS

OR HOW TO MAKE MONEY RAISING POULTRY

MOST TALKED OF POULTRY BOOK PUBLISHED. It is thoroughly practical. Articles written from actual experience. There is nothing technical about it. Nothing hard to understand. Just the sort of information that one practical poultryman would give another. No use experimenting all the time. Profit by the other fellow's experience. It is not necessary to describe this new and valuable book here. Everybody that gets it endorses it. Read every word our friends say about it, and they will tell you in their own language, better than we could, just what the book is. We will say this, however: Send fifty cents for the book, and if you are not more than pleased with it, we will return your money. Read every one of these testimonials from some of the best known poultrymen in the country. Send orders to

SEND 75 CENTS AND THE INDUSTRIOUS HEN WILL ALSO BE SENT FOR ONE YEAR.

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"HEN AND CHICKS has more good, common sense in it than many of the books on the market, and is well worth the price asked. For the beginner it is an excellent guide."—*Michael K. Boyer, Hammon, N. J.*

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"I have just received your book, HEN AND CHICKS, and think it is the best book in print for beginners in poultry keeping. I have looked over it and it is selected stuff, so arranged that you can find what you want without looking over so much territory."—*C. E. Pittman, Commerce, Ga.*

The Industrious Hen Co., Knoxville, Tenn.:

"Have only had a chance to glance through HEN AND CHICKS, as a visiting friend who was leaving the city wanted the copy, therefore we are without one. We are enclosing the price for another, which we hope you can send at once. We think the book very valuable for both beginners and experienced breeders, and heartily recommend it. Could easily sell several copies, and would be glad to accommodate you and our friends."—*J. P. Swift & Son, Waynesville, N. C.*

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"I can frankly say that it is the best book of its kind that I ever saw. Have seen books that sold at \$1.00 and \$1.50 that could not compare with it. It will take with anyone who desires good, simple, honest facts."—*P. H. Weikal, Marion, Ind.*

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"I have carefully sketched over every piece in the book, and unhesitatingly say it is full of good things from start to finish, and will be of great benefit to poultry breeders, and most especially to those who are just starting. Most of the articles being from the pens of breeders who wrote them from personal experience is of very much more value. It is full and complete and well arranged, and full of good advice to beginners, where many mistakes are made in the poultry business."—*C. H. Dozier, Marion, Ala.*

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"A person can be guided by the information found in HEN AND CHICKS and make a complete success of poultry raising. I feel safe in saying that no one who gets a copy will ever want to part with it unless they are sure of getting another one."—*J. A. Thornhill, Hartselle, Ala.*

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"It's the best thing of the kind I have ever seen, and I am sure that it should be in the hands of every poultry raiser. I am requesting all my friends and customers to send for a copy. I am sure you will soon have a great demand for the book."—*H. B. Lansden, Manchester, Tenn.*

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"HEN AND CHICKS starts off all right on page one by admonishing the poultryman to study and understand his business, and then proceeds to instruct him in a manner that will enable him to conduct a profitable poultry business. The correct diagnosis and practicable remedy prescribed for cholera alone is worth the price of the book. The article on caring for little chicks, as well as the 179 other articles, all to the point, while we may not agree with every theory and practice advocated in its pages, it is what the name indicates, and as THE INDUSTRIOUS HEN lays all over the South, HEN AND CHICKS may soon be scratching in every nook and corner of the Sunny South."—*Milton Doss, Kimberly, Ala.*

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"Today I received a copy of HEN AND CHICKS, or How to Make Money Raising Poultry, and am highly pleased with it. Being made up of carefully selected articles from THE INDUSTRIOUS HEN, it covers a wide field of poultry theory and practice, and cannot be but very helpful to any poultryman. By choosing from a great variety of writers, the subject is presented from every point of view. The reader can't do better than to send 50c and secure a beautifully illustrated copy of more than 300 pages."—*T. C. Karns, Powell Station, Tenn.*

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"HEN AND CHICKS has afforded me a great deal of pleasure—I have gotten lots of good things out of it. You certainly have volumes boiled down to a small space, and without an exception it is the best book I have ever seen on poultry. It treats all sides in a business and condensed form. It is worth many times the price you ask for it to any man who expects to raise fancy or utility poultry."—*J. C. Vaughan, Lebanon, Tenn.*

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Proof it takes, and proof we have, that after 8 years careful breeding we have both birds and eggs to offer you of highest quality. 1912 at Newport, Tenn., 1st pen, 1st cock, hen, pullet, cockerel. Sweetwater, 3 entries, 1st pen, 1st pullet, 3rd cockerel. Morristown, Tenn., 1st, 2nd, 3rd cockerels, 1st pullet, 1st hen, 2nd pen. Sweepstakes on male and female for highest scoring birds in show, shape and color. Red Club of America Specials. Eggs, \$2.00 to \$7.50. Ask for mating list. APPALACHIAN POULTRY YARDS, A. J. Stanbery, Proprietor, R. F. D. No. 2, Newport, Tenn.

Hoag Farms, Enid, Oklahoma, Breeders of

S. C. White Leghorns--Buff Orpingtons Single Comb Rhode Island Reds

Our birds have become popular upon their own merits. They are noted for their marvelous laying qualities and hardiness. If you need a bird for your show or breeding pen write us, our catalogue is free. (Mention this journal.) Eggs and baby chicks in season.

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Bred with inborn tendency to lay—long, deep bodies, low tails, pure white, healthy, vigorous. Bred and fed on scientific principles; reared under natural, congenial environments. Yearling Hens, Yearling Cocks, Cockerels and Pullets for sale.

CHICK-A-DEE FARM, J. A. Dinwiddie, Prop., New Market, Tenn.

NATIONAL WHITE RUNNER DUCK CLUB CATALOGUE

At last a book devoted entirely to WHITE RUNNERS is to be published. If you are interested in White Runner Ducks, then you should have one of these books. This catalogue is to be issued by the NATIONAL WHITE RUNNER DUCK CLUB. It will contain the usual statistics of the Club and in addition articles by the foremost breeders of White Runners in the country; taking in every phase of the White Runners in breeding, care and marketing. This book will be of great value to breeders of White Runners. Price of catalogue is fifty cents. Become a member of the NATIONAL WHITE RUNNER DUCK CLUB and you get a catalogue free. Membership fee \$1.00. Address O. O. RAY, Secretary-Treasurer, Kirkwood, Georgia.

Specialty Clubs & Associations

THE AMERICAN BUTTERCUP CLUB.

The first annual meeting and competitive exhibition of the members of The American Buttercup Club will be held in connection with the eleventh annual show of the Flower City Poultry and Pigeon Association at Exhibition Hall, Exhibition Park, Rochester, N. Y., during the second week in January.

The American Buttercup Club, although less than nine months in existence, already has a membership exceeding 150, and they are very enthusiastic regarding the outlook as to the future of their favorites, the general public seeming greatly interested in them.

The club has recently formulated a Standard which will come before this meeting for revision and adoption, after which it will no doubt be accepted by the American Poultry Association, and Buttercups will be admitted to the A. P. A. Standard of Perfection.

In addition to the usual cash prizes and other specials, a very handsome silver cup, (with no strings attached), is to be awarded to the exhibitor who scores the greatest number of points, at this show, on his exhibition of Buttercups.

Good stock of this new breed is still very scarce and will be in great demand for years to come, and this fact plainly shows an unusual opportunity for any fancier who desires to acquire something new that is certain to bring quick dividends.

Details concerning membership may be obtained by addressing the Secretary, Isaac F. Tillinghast, Factoryville, Pa.

The next annual meeting of the Rose Comb Buff Leghorn Club of America will be held at Indianapolis, Ind., January 15, 1913, in connection with the National Fanciers' Club. Officers will be elected then. Many cash specials and silver cups are offered, and it is desired that breeders

will bring together as large a class of R. C. Buff Leghorns as possible.

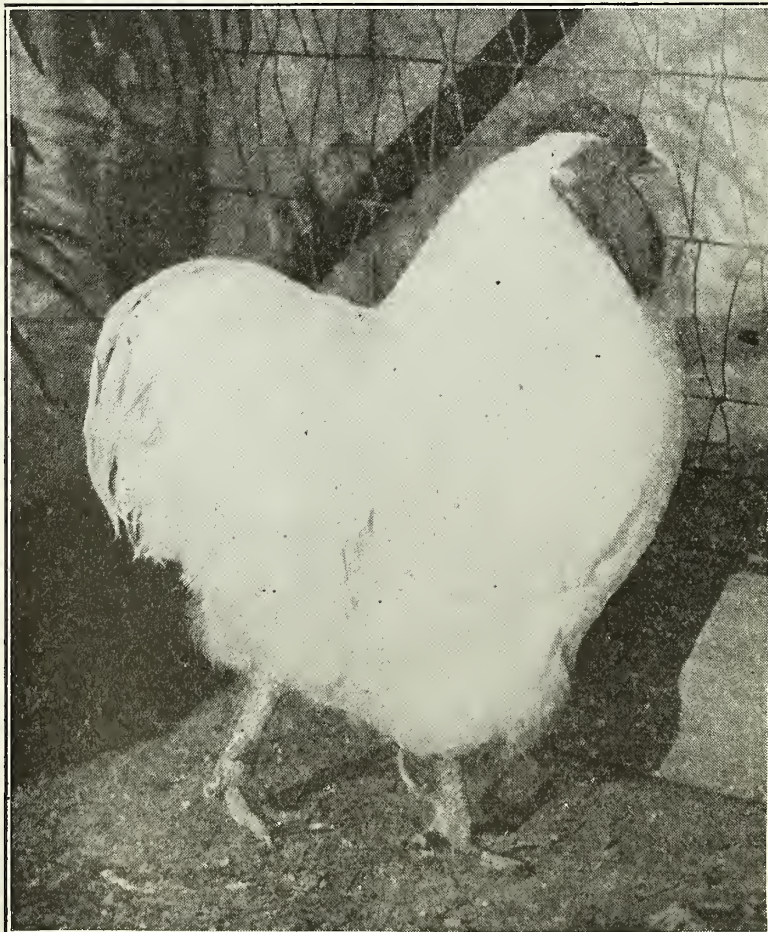
Clean, fresh water in clean, fresh looking vessels is a daily necessity in the poultry yard.

TO THE MEMBERS OF THE NATIONAL S. C. RHODE ISLAND RED CLUB.

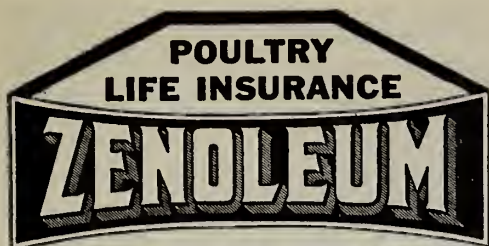
Some time early this fall special ballots were sent out to the members of the National S. C. Rhode Island Red Club for the purpose of voting on the proposition of merging with the new Red Breeders' Club of the World. On October 15th all ballots that were then returned were counted and showed this result: 45 members in favor of the merger; 5 against it.

It will be noted that the members voted almost unanimously in favor of the merger, and such has already been effected. All members of the above club will now receive membership in the Red Breeders' Club of the World for time that their dues in the old club were paid.

The National Club had already sent its offer of badges to be published in the premium lists of a great number of poultry associations when the vote was taken. Members who will win some of these badges will receive those of the Red Breeders' Club instead, and all breeders sending in dues to compete for these specials will receive membership cards from the Red Breeders' Club of the World and also from the National S. C. Club, so as to have something to show up in competing for the specials offered in the name of the National S. C. Rhode Island Red Club. The National S. C. Club has now altogether ceased to exist, and the interests of its members



White Wyandotte Cock. Bred and Owned by J. C. Fishel & Son, Hope, Indiana.



KILLS LICE AND MITES

DISINFECTS the Hen House, Brooder and Incubator. CURES Roup, Scaleg Leg, Canker, Cholera, etc. PREVENTS White Diarrhoea.

Sold by most live Dealers. Ask your Druggist, Poultry Supply Man, Hardware or Feed Store.

Great Book, "CHICKEN CHAT," Free if you ask for it.

THE ZENNER DISINFECTANT CO.
201 LAFAYETTE AVENUE, DETROIT, MICH.

will be looked after in a most liberal way by the Red Breeders' Club of the World.

Owing to this merger, the proposed catalog of the old club was not published, and all members and those who have sent money for this book will receive the catalog of the new club, which will be off the press shortly.

THE S. C. RED LEGHORN.

In this breed I think we have the Omega of the Leghorn class. While comparatively a new breed, they have been bred by a few for some time. The promoters of this breed have been very slow to exhibit and advertise them. They have realized from the beginning that to accomplish their desire—that is, bring out a breed that will hold its own with the many older breeds—they must go slow and make no mistakes.

So far they have succeeded beyond their fondest expectations. We now have another variety that only needs to be exhibited and advertised to become breeders and money makers for their owners. In characteristics they are true Leghorns; however, the promoters aim to increase their size over the Brown Leghorns. In this they have succeeded to some extent. They lay fully as well and better than some of their older cousins.

As to color, the male birds are very beautiful. Being a brilliant red, and with their large bright red combs and white ear-lobes, they make a picture hard to beat. The females are not so highly colored. However, I don't believe they will be half as hard to breed to good color as the Rhode Island Reds were a few years back. In the Rhode Island Reds we had every shade of yellow, buff and red to contend with, besides smut and feather legs.

There is one point the Red Leghorns have it over the Rhode Island Reds: That is smut or slate under-color. It is the general opinion of their breeders that they should have a bar of slate like the Buckeyes. I have handled specimens that had as pretty

OWEN FARMS

OUR WIN AT NEW YORK,
MADISON SQUARE GARDEN,
LAST SHOW

BUFF ORPINGTONS: Five Firsts, including 1st Cock, 1st Hen, 1st Cockerel, 1st Pullet, 1st Pen, making first in all the classes, and also 3d Cock, 4th Hen and 6th Cockerel.

WHITE ORPINGTONS: Three Firsts, 1st Cockerel, 1st Hen and 1st Pen; also 2d Pen, 3d and 5th Cock, 6th Hen and 3d Pullet.

BLACK ORPINGTONS: One First, 1st on Cockerel, and also 5th Hen and 5th Pen.

WHITE ROCKS: Four Firsts, 1st Cock, 1st Cockerel, 1st Pullet and 1st Pen. 2d in all five classes, Cock, Hen, Cockerel, Pullet and Pen. 4th and 5th Cock, 4th Hen, 5th Cockerel, 4th Pullet, and on Pen we won every place but 4th, making our Pen winnings, 1st, 2d, 3d, 5th and 6th.

BARRED ROCKS: In this variety no exhibitor won more than one first. We won 1st Pullet, which was awarded the Shape Special and also won the Championship for best female. We also won 4th Pullet and 2d Hen.

This made a grand total of 27 Firsts, 12 Seconds, total number of birds winning under ribbons at

We submit to you frankly this question: Could any other farm than Owen Farms possibly be in a position to do more for you than they can? We answer it for you by saying it is not possible. With 8000 young birds, and 2000 older birds for the cock and hen classes, possessing all the quality that their New York winners have made possible, they can and will do more for you than any other farm possibly could.

Whether you are rich or poor, a large breeder or a small breeder just beginning, makes no difference to us. Our price on a particular bird is the same to all. We necessarily have birds that will fit your needs, however

WM. BARRY OWEN, Prop.
MAURICE F. DELANO, Mgr.

OWEN FARMS

WHITE WYANDOTTES: Three Firsts, Cock, Cockerel and Pen. Also 3d and 4th Cock, 2d, 3d and 5th Hen, 2d Cockerel, 2d and 3d Pullet, and 2d and 3d Pen, giving us the first three awards on Pen.

SINGLE COMB REDS: Three Firsts, 1st Cockerel, 1st Hen, 1st Pen. Our 1st Hen also won the Shape Special. We also won 5th and 6th Cock.

ROSE COMB REDS: Two Firsts, 1st Cock and 1st Pen. Our 1st Cock was the Champion Male of the show. We also won 3d Cock, 2d and 6th Hen.

SILVER PENCILED ROCKS: Four Firsts, Cockerel, Hen, Pullet and Pen. Also 3d Cock, 5th Hen, 4th Cockerel, and 3d and 5th Pullet.

COLUMBIAN WYANDOTTES: 1st and 4th Pullet and 4th Pen.

11 Thirds, 9 Fourths, 10 Fifths and 5 Sixths, and a

this famous and largest show in America of 139. large your show and particular your requirement, or however modest may be your intention to commence breeding or exhibiting. There is no one interested in poultry who is desiring to purchase whom we cannot and will not give our very best attention to and try to carry out to its utmost the golden rule, namely, that we will do exactly by you as we would be done by.

Our catalogue containing 131 pages of illustration and interesting matter will be gladly sent you upon request. We only ask you to write early for exhibition birds. It takes time to select, wash, fit and coop-train, and correspondence consumes more or less time inevitably.

408 William Street
Vineyard Haven, Massachusetts

SOUTHLAND'S CHAMPION

White PLYMOUTH ROCKS

Again reign supreme in the Show Room, winning all specials, more firsts and seconds than all competitors combined, whenever and wherever shown. We have mated up our pens from the following winners:

At Southern International, Atlanta, December, 1912, 1st cock, 2nd hen, 2nd and 3rd cockerels; 1st, 2nd and 3rd pullets; 1st and 2nd pens. Sweepstakes, best pullet in show, over 700 pullets, all breeds and varieties competing, all specials.

At Southwestern Show, Little Rock, Ark., November, 1912, 1st cock, 2nd hen, 2nd cockerel, 1st pullet, 1st and 2nd pens. Three Cups for best Display, best males and females, highest scoring, fifteen entries. All cash and club specials.

At Great Tri-State Show, September, 1912, 2nd cock; 3rd and 4th hens; 1st and 2nd cockerels; 1st, 2nd, 3rd and 5th pullets; 1st, 2nd and 4th pens. Best Display, etc. All first prizes at Atlanta, December, 1911, etc., etc. When you want the best write to

MARTIN F. SCHULTES ∴ Albashire ∴ **BARTLETT, TENN.**

and clear under-color as one could wish for. As to their origin and parentage, authorities differ to some extent. I think the first ones came from Massachusetts; am not so certain about that. In time I intend tracing them back to the beginning.

As to their blood lines, they have the blood of the Brown Leghorn, Rhode Island Red and Buff Leghorn in them; while some think they have a dash of Red Sussex blood in them. I am inclined to believe the latter as they have a somewhat shorter leg than the other Leghorns. This gives them a more blocky appearance than they really have. However this is not detrimental to the breed, as it gives more weight without lessening their laying qualities. As I consider them from every standpoint, I believe they are the Leghorns of all Leghorns and are destined to take the front rank in the great egg class of chickens.—Mrs. P. C. Dorsett, Trenton, Tenn.

RATION TO MAKE HENS LAY

An excellent ration to make hens lay, worked out by the poultry department of the Oregon Agricultural College, was exhibited there during Farmers' Week. It contains 30 lbs. of wheat, 10 lbs. bran, 10 lbs. oats, 5 lbs. each of middlings, linseed meal, whole corn, ground corn, and beef scrap, 2 lbs. charcoal, 3 lbs. each grit and shell, 4 ozs. salt, and 20 lbs. kale.

This is sufficient for one hen for one year, and if she is a good hen she should produce 200 eggs in the year on this ration. If linseed meal is high or whole corn for any reason difficult to obtain, either or both, may be omitted and good results still be obtained.

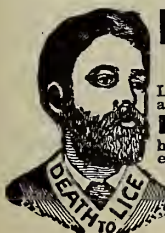
HEN IS SOLD FOR \$300.

"Lady Show You," a white Plymouth Rock hen that won the national egg laying contest at the state poultry station, Mountain Grove, Mo., this year, was sold at Springfield, Mo., recently for \$300 by J. A. Bickerdike, of Millersville, Ill. The hen has a record of laying 281 full weight eggs this year.

MR. VALENTINE'S NEW BOOK.

We are in receipt of a specimen copy of Mr. C. S. Valentine's latest book on poultry, entitled "The Beginner in Poultry." The book contains 450 pages, and is one of the most handsome in mechanical arrangement and quality of printing we have ever seen. The book is an able treatise on all poultry subjects and should be in the library of every poultryman. It is published by The MacMillan Co., 66 Fifth Ave., New York, and sells for \$1.50 net. Order one today.

The freshest eggs always hatch the best.



Best and Quickest Way to Get Rid of Lice

Lousy fowls never pay. Keep the chicks growing and hens laying by ridding them of lice and mites. **Lambert's "Death to Lice"** has been the standby for 30 years. Will not harm eggs, hens or chicks. Prices 10c, 25c, 50c and \$1.00. If not at your dealer's we will send direct. Also "Pocket Book of Pointers" by D. J. Lambert for 2c stamp. Write today—NOW. **O. K. STOCK FOOD COMPANY** 513 Traders Bldg. Chicago

DENSMORE'S Single Comb WHITE LEGHORNS

WIN, LAY AND PAY

To make room for growing stock, we will offer a few choice breeding pens at half price. Also 500 one and two year old hens at \$1.00 and \$1.50 each.

THE DENSMORE POULTRY FARM, Inc. Roanoke, Virginia



Mammoth Bronze TURKEYS for Sale

Old and young stock from two magnificent flocks, mated for largest size and best plumage. When buying be sure you buy the best. My breeding toms for six years have weighed from 43 to 50 lbs. at 18 and 20 months of age. Won many prizes in the leading shows, scoring from 96 to 97½ points. I can furnish you young stock that will grow that way for you. Do not delay buying your breeding stock early. Also Barred Plymouth Rock Chickens from the best prize-winning blood. Eggs in season. Member A. P. A. MRS. J. C. SHOFNER, Booneville Poultry Yards, Route 1, Mulberry, Tenn.

Buff Plymouth Rocks

WINNING 1st COCKEREL, 3rd and 5th HENS.

Special for best BUFF PLYMOUTH ROCK male at Hagerstown, Md., Oct., 1912. SHOW COCKS, HENS, COCKERELS, AND PULLETS for sale. Also great breeding birds at reasonable prices.

Write us **JEFFREY & HERVEY, Raleigh, N. C.**

IN DEFENSE OF BUCKEYES.

Industrious Hen,
Knoxville, Tenn.
Dear Sirs:

Your Mr. F. A. Goodlin asked me to send you an article on Buckeyes, for January issue. I might say we began raising poultry 25 years ago, and more, and have bred many different varieties, keeping abreast of the times and watching the new varieties and breeds.

As the Buckeye was a combination of the Barred Rocks, Buff Cochins, Black-Breasted Red Games and Cornish or Indian Games, we decided to pin our faith to this breed in the American class. And although chicken fanciers have poked all kinds of fun at us, we have never regretted casting our lot with the Buckeye breeders.

The R. I. Red breeders tried every way to keep our birds from being admitted to the Standard. After they failed and the Buckeyes were admitted at the same time with R. I. Reds, they then tried a new scheme. They saw our Buckeyes were superior to R. I. Reds, the Buckeyes weighing one-half pound more and having a rich mahogany surface color, instead of a pumpkin red, as most R. I. Reds do, (although the Standard calls for a brilliant red in R. I. Reds), they tried to get the Buckeye breeders to call their birds "a Pea-Combed R. I. Red." This we refused to do, and ever since 1905 they have tried every scheme to defeat Buckeye breeders, even refusing to offer premiums on Buckeyes at the various poultry associations. They even went so far as to get the A. P. A. to make us drop the word "Red" from Buckeye Red, but even with the pull of the A. P. A. and all other means legitimate and otherwise, they have failed to cause a single breeder to drop Buckeyes. They cannot boast of a single case to my knowledge where a Buckeye breeder quit the Buckeyes and took up the R. I. Reds. On the contrary many R. I. Red fanciers and breeders have discarded R. I. Reds for Buckeyes.

The Buckeyes to my mind, after a

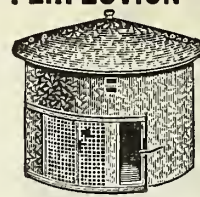
number of years experience in handling and breeding them, are the best winter-layers, the best table birds, and the best utility fowls. They grow off rapidly and at 4 to 6 weeks are three-fourths to one and one-half pound broilers of the tenderest and juiciest meat ever put on a chicken. They require one-fourth less food, have no dark pin feathers, and although fat or lean, they are a golden yellow and tempt the appetite of the most fastidious. They are equally fine as friers or roasters, and the meat has a rich, delicate flavor that lingers and nourishes long after the feast is forgotten.

The Buckeyes are easily confined, being non-flyers and fighters and adapt themselves easily to the surrounding circumstances. It affords us pleasure to say that we have never been defeated at any shows where we



1st Cock, Single Comb Red at Jamestown. Owned and Bred by Callahan & Son, East Point, Georgia.

PERFECTION SANITARY CIRCULAR METAL BROOD COOP



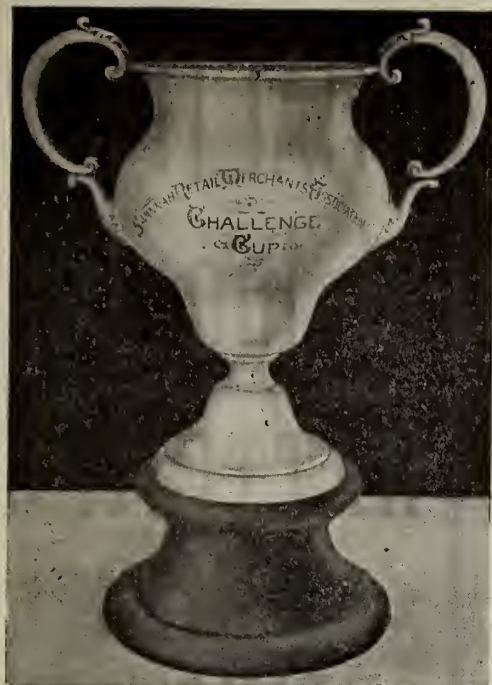
made entirely of galvanized iron which will last a life time. They are properly ventilated, and are Rat, Mink, Weasel and Skunk proof. Just the coop you are looking for. Write for circular & special introductory prices. Perfection Metal Brood Coop Co. Box 36-M Warsaw, Ill.

have exhibited. We won the Silver Cup at Memphis, Tenn., Sept. 23d to 29th, for best pen of Buckeyes. This cup was offered by the American Buckeye Club. Of course we won other prizes, but the Silver Cup was the championship prize. Judge Denny, who judged this pen and who is well known as one of our best judges, is a Northern man, and vice-president of the American Poultry World, a paper published at Buffalo, N. Y., said: "This is the best pen of Buckeyes I have ever judged, or ever saw; the uniformity of color for birds of this age is remarkable." Now Judge Denny is a good poultryman, and knows a good bird and when a Northern man makes such a statement at a poultry association as large as the Tri-State Fair Association at Memphis, Tenn., you may rest assured these birds must have been the very classiest. The writer believes, himself, that this is the best pen of Buckeyes ever bred in the United States, and we would not sell this pen for \$1,250 cash today. In fact, we have been offered more than that for this pen. We value them at \$2,000.

We are subscribers to the Hen and appreciate your efforts in aiding and helping the South. It is a difficult thing to get our country folk to give up the old scrubs for fancy or improved stock, but we do know if we have patience and all push and work, the time will come and that soon, when every Southern yard will be full of thoroughbreds. I am always willing to help the South to realize the vast opportunities before her citizens. At the same time our Buckeyes are feeding and clothing my wife, myself, my father and four children, and giving them an education, home comforts and much pleasure.

Will be glad to give further advice and particulars if any one desires to enter the Buckeye field. I want to say the Memphis papers are the stingiest papers I've ever come in contact with when it comes to boosting a poultry show, or the town in which they live. No wonder Atlanta is ahead of her. The Atlanta papers, are without comparison when it comes to boosting. Some day I hope to see Memphis wake up.—Jas. L. Reynolds, Owner Locust Hill Farm, North Augusta, S. C.

Kerosene and lime about the perches and nests is desirable, but if the hens have no place in which to dust, the lice will stay with them in spite of us.



"BLUE-BARS" WIN

THIS MAGNIFICENT \$100.00 STERLING SILVER CUP was offered at the recent Savannah, Georgia, Show for Best Display of Plymouth Rocks, all varieties competing. We entered thirteen "BLUE-BAR" Barred Rocks and every bird was placed.

This win in the hottest kind of competition, not only with Barred Rock breeders, but breeders of every variety of Plymouth Rocks, stamps my "BLUE-BARS" as second to none in the South.

SPECIAL OFFER FOR JANUARY

A very choice breeding trio (one male and two females) for \$7.50, or a pen (one male and four females) for \$12.00. Sired by First Prize Winners, and if you don't like them when you see them just send them back to me. Write for particulars.

Grand strong barred breeding cockerels at \$3.00 to \$5.00 each.

EGGS FOR HATCHING \$2.00, \$3.00 and \$5.00 per fifteen.

L. H. READE, Highland Park, RICHMOND, VA.

Originator of the "BLUE-BAR" Strain of Barred Plymouth Rocks.

RAW EGGS AS A NERVE TONIC.

Some people are at least beginning to learn the value of raw eggs as a nerve tonic, declares a trained nurse. For the last few years I've been trying to get nervous patients to give this simple remedy a trial, but I really think its simplicity was against it. When anything is simple, easy, and cheap, it stands no chance at all.

A celebrated nerve specialist told me the other day that one could hardly over-estimate the benefit from the almost wholesale eating of raw eggs in case of serious nervous exhaustion. Not a raw egg now and then—not a bit of it—but raw eggs two at a time, and at least four times a day! Ten eggs a day are often taken by a patient with most excellent results. This same specialist told me that he had seen the most ragged set of nerves he ever dealt with quieted in a week with this treatment, combined with as much milk as the patient could take. An immense amount of pure and highly concentrated nourishment may be taken into the system in this way.—Ex.

Officers for Kentucky Branch A. P. A.

The report of the election commissioner on the annual election of officers for the Kentucky Branch of the American Poultry Association is as follows:

President—Roger V. Harp, Lexington, Ky.

1st Vice Pres.—Harris Lehman, Midway, Ky.

2nd Vice Pres.—W. B. Buford, Nicholasville, Ky.

Secretary—F. L. Snyder, Lexington, Ky.

Treasurer—Harry Martin, Pointexter, Ky.

Members of executive board for two years: F. H. Gordon, Lexington, Ky., F. L. Smith, Lexington, Ky.

These officers, with the two hold-over members of the executive board: R. M. Sparks, Nicholasville, and M. Vilev Offutt, Georgetown, Ky., complete the roster of officers for the next year.

At the organization of the branch

Will Win Anywhere



5000 Birds Like this at Low Prices

FERRIS IMPROVED White Leghorns are

Winter Egg Machines

Ferris Leghorns are the best layers in the world. Size, health, vigor and profit are bred in the bone. Scientifically bred for eggs for 10 years and will lay 175 eggs or more a year with ordinary care. Thousands of satisfied customers all over the world. We can prove that they will pay you best.

SATISFACTION OR YOUR MONEY BACK

Our guarantee is the most liberal ever given by any breeder. You must be perfectly satisfied before sale is considered closed.

Eggs and Day Old Chicks

We are prepared to ship eggs and chicks in any quantity. Thousands of hens in our bred-to-lay matings. 25 exhibition matings. Infertile eggs replaced free; safe arrival of chicks guaranteed. Our New 60-Page Catalog just received from the printers. Gives prices and describes stock, farm, methods. Finest White Leghorn catalog ever published. Absolutely free. Send postal today for your copy. **GEO. B. FERRIS, THE FERRIS LEGHORN FARM, 920 Union Av. Grand Rapids, Mich.**



Get this 60-Page FREE Catalog

BLYTHE BROTHERS ROYAL BLUE ROCKS

We have a fine bunch of breeding birds, both males and females, in single, pairs, trios and pens, including my famous Cock, King Blue, and young stock from his pen. We guarantee to please and prepay express charges on every order over \$10.00. Let us hear from you at once.

BLYTHE BROTHERS :- Box B :- FRANKFORT, KENTUCKY

two years ago the membership was twenty-two, and by the earnest efforts of the officers of the past two years the membership has been increased to seventy-two.

With the proper effort on the part of each officer and member it is possible to double the membership the coming year.

I trust that I may have the earnest support of each member and that we may make a record gain in the work the coming year.

I am,

Yours very truly,
ROGER V. HARP,
Lexington, Ky.

POULTRY STATISTICS—ALA.

The Department of Commerce and Labor has furnished us with the following poultry statistics relative to Alabama:

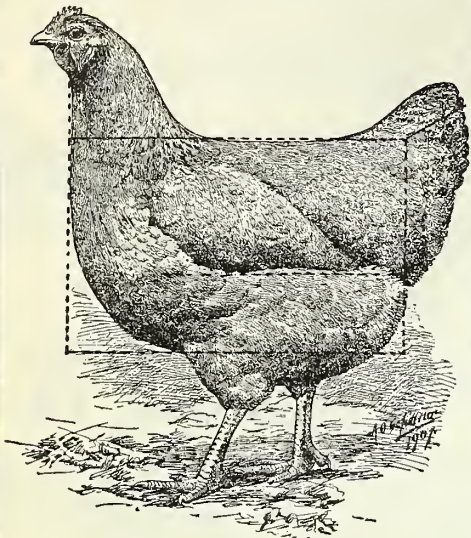
The total number of fowls on Alabama farms on April 15, 1910, was 5,028,000. Of the 221,482 farms reporting fowls 36,679 did not report any eggs produced in 1909 and 36,593 did not report any poultry raised in 1909. The production of eggs actually

reported for the year 1909 was 19,626,000 dozens, valued at \$3,321,000. According to the Twelfth Census reports the production of eggs in 1899 was 18,779,000 dozens, the value being \$1,826,000. The latter figures, however, are somewhat in excess of the actual returns at that census, because they include estimates made to cover those cases where the schedules reported fowls on hand without reporting the production of eggs. In order to make the returns for 1909 comparable with those published for 1899, similar estimates have been made, the method of estimate and the justification therefor being substantially the same as in the case of wool. The total production of eggs in 1909, including these estimates, was 22,235,000 dozens, valued at \$3,762,000. The total production of poultry in 1909, including estimates made on the same basis as for eggs, was 12,467,000 fowls, valued at \$3,168,000.

The lice will soon be coming in all their strength and the battle with them must be hard fought if you expect to win.

THE Rhode Island Reds

SINGLE AND ROSE COMB



Specimen Illustration (much reduced)

THE most complete, authentic and attractive book on this popular breed ever published (80 pages and cover) — historical, instructive and beautifully illustrated. It tells the history and origin, how to select and mate birds for the breeding pens, as well as how to judge them both by comparison and score card; also much useful information along commercial lines.

Edited by

D. E. HALE,

Well known as Breeder, Judge, Lecturer and Writer.

Fully Illustrated by

**A. O. Schilling, F. L. Sewell,
I. W. Burgess.**

CONTENTS

History of Rhode Island Reds.
Standard-Bred Rhode Island Reds.
Proper Mating of Rhode Island Reds.
Rhode Island Reds as a Fanciers Fowl.
Rhode Island Reds as a Utility Fowl.
Some Successful R. I. Red Farms.
Judging Rhode Island Reds by Comparison and Score Card.

CONTRIBUTORS

The contributors to this book are the acknowledged leading breeders and judges of the country. They include such men as Tompkins, Harris, Almy, Buschmann, Sibley, Rich, Miles, Harrison, Kaufmann & Windheim, Burleigh, Crowther, Coulter, Coe, Scott, Carver, Rick-secker, Smith, Hartley, Coffin, Dennis, Clarke, Drenstedt and Denny.

COLOR PLATE made from ideal R. I. Red feathers selected and arranged by Artist Sewell — said to be the best thing of the kind ever published. Text and illustrations are brought down to date to conform to the 1910 edition of the American Standard of Perfection.

75 CENTS, POSTPAID

This Book and Industrious Hen
1 year for \$1.00

Send all orders to

THE INDUSTRIOUS HEN
Knoxville, Tenn.

GREAT POULTRY PLANT ESTABLISHED IN SOUTH.

Atlanta, Georgia, Home of One of the Largest and Most Modern Farms In America.

No one thing is more indicative of the increased importance in which the poultry business has come to be held by leading agriculturists and business than the position achieved by the Briarcliff Farm in a state and section of the country where chicken raising on a large scale has seldom if ever been seriously attempted.

Established three years ago by Mr. Asa G. Candler, Jr., near his beautiful country home in Atlanta, Georgia, Briarcliff Farm has grown from a simple experiment station to one of the largest plants for the breeding of fine chickens in America and Europe. Today the plant covers about fifty acres and close to forty thousand fowls are distributed on its free range and find shelter in its colony houses and breeding pens.

The natural location of Briarcliff Farm closely approximates the ideal from the poultry fanciers's viewpoint. The ground is hilly and broken, with plenty of shade and a loose, shaly soil, that provides excellent scratching. To those wise ones who appreciate the supreme desirability of the proper range this point alone is one of great interest. The houses of this plant are of the very latest and most approved type and fully in keeping with the general excellence and progressiveness that is everywhere manifest.

Planned after a special design evolved by Mr. Candler and his assistants after exhaustive study of the best buildings of the leading farms in this country and Egnland, they fully meet every possible requirement. Each house is built upon a reinforced concrete foundation and especial attention has been paid to the provision of a proper grade so that drainage and cleanliness would be freely facilitated. Experts who have inspected Briarcliff Farm, testify that from this standpoint and from that of ventilation these buildings could not be surpassed.

Each structure has a special purpose and has been provided with the finest possible equipment for carrying it out. Hot water heating systems and drinking founts rival the similar equipments found in the palatial stables where are housed the priceless thoroughbreds of racing millionaires; there is no crowding and each variety of fowl has ample quarters. The giant incubator, the brooder and three large breeding houses each occupy a separate structure. And in addition are the several large colony houses provided with the very best in the way of heating, watering and feeding equipment.

Briarcliff Farm specializes in the raising of Orpingtons and Leghorns and has won a position of enviable distinction with its representatives of these two popular strains. Other breeds have not been neglected, however, with a consequence that we find at Briarcliff a valuable array of Diamond Jubilee, White, Buff, Black Orpingtons, Single Comb White and Black Leghorns, Mottled Anconas.

QUALITY at the Top HATTEMER WHITE ORPINGTONS

are layers, breeders and show birds. We have 100 young stock from winners in Atlanta, Birmingham, Mobile, Montgomery, at **BARGAIN PRICES**

Must make room before cold weather, therefore will fill your orders at half regular prices. Let us quote you prices on cockerels and pullets, cocks and hens.

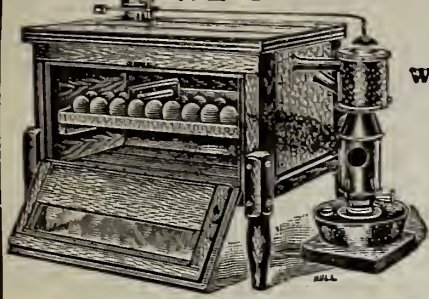
J. F. HATTEMER
Fort Deposit, Ala.

PRICES at the Bottom

Campines, Salmon Faverolles, Lakenfelders, and many others. There are also represented at Briarcliff, forty varieties of Bantams, geese, turkeys, ducks and other fowl.

In the past year the Briarcliff Farm

\$8.50 — 63 EGGS
WE PAY FREIGHT



any-
where
in
the
U.
S.

Greatest Bargain Ever Offered. Catalog FREE.
PETALUMA INCUBATOR CO.
Box 324 Petaluma, Calif. Box 381 Indianapolis, Ind.

entries have practically swept the boards at all the Southern shows and their winnings have been especially notable in the Orpington class. In competition with nearly 1,000 birds the Briarcliff exhibits carried off 57 firsts in Orpington, Leghorn and Ancona classes, not to mention a number of seconds, sweepstakes and specials, at the three leading Southern shows just closed. And their records in other classes was equally as distinguished.

No money has been spared at Briarcliff to give the country one of the most successful poultry plants obtainable and fanciers from coast to coast predict great things for Mr. Candler's farm. It is a pleasure to find such a plant leading the fight for better chickens shoulder to shoulder with the older farms.

SUNDAY EGGS TO BUILD TEMPLE.

At Magrath, Alberta, Canada, a \$20,000 tabernacle of the Latter Day Saints was destroyed by fire and the members have agreed to give all eggs laid on Sunday to rebuild it.—News Item.

This leads us to recollect that it takes the eggs laid on Monday to pay for packing. Those laid on Tuesday will offset loading charges. Wednesday's and Thursday's collections will pay the transportation to market. Friday's lay will pay for commission and breakage and Saturday's production will go for feed, help and the other minor charges. The extra day, Feb. 29, every four years, will be the "profit day."—Produce News.

THE WONDERFUL HEN.

Did you ever study a hen closely? I can't say that I did; but others have, and they tell us wonderful things about the hen, as common a creature as you ordinarily take her to be.

The hen knows things that a man never dreamed of before she let him into the secret. It puzzles us to imagine how the little hen found out some things that the wisest man would think only God could know. Yet she knows them and she knows them right.

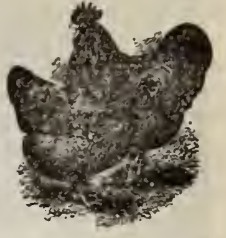
She knows that on the eighteenth day after she begins to sit on eggs every little chick turns over in its shell, if it is not already on its back, ready to peck its way out through the top. On getting on the nest that day if the mother accidentally tips an egg



Buff LEGHORNS Buff ORPINGTONS

Two of the Best Breeds
THE WINTER LAYERS

Size, shape, and color to win. We please others, we can please you. Eggs and baby chicks. Write for booklet and prices. Let us tell you how to get eggs in winter, it's free. Valley View Poultry Yards, Nashville, Tenn.



Single Comb WHITE LEGHORNS

Single Comb BLACK MINORCAS and COLUMBIAN WYANDOTTES

Our birds are winning the Blue at the leading shows. We have one of the greatest laying and early maturing strains of S. C. White Leghorns in the South. We are booking orders for eggs now. Minorcas and Wyandottes, \$3.00 and \$5.00 per 15. Leghorns, \$1.50 per 15. Place your order now. A few good breeders for sale.

MOUNTAIN VIEW FARM

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MOORESBORO, N. C.



WHITE
BLACK
BUFF

ORPINGTONS = WHITE WYANDOTTES
INDIAN RUNNER DUCKS

WHITE

FAWN and WHITE
ENGLISH PENCILED

Baby Chicks and Ducklings, 153 Prizes in 4 shows, A. P. A. Gold Medal. Stock and Eggs for sale. Fancy Poultry for breeders a specialty. Write for Special Price List No. 69.

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MERIDIAN, MISSISSIPPI

S. C. White Leghorns--White Indian Runner Ducks

English Penciled and American Fawn and White Runners

WHITE EGG STRAINS

1,000 breeders. Exhibition stock. Day-old chicks and ducklings. We make a specialty of eight weeks' old ducks—birds out of danger and practically grown. We are contracting rapidly and orders should be sent in early. Safe delivery on everything guaranteed. Write for catalogue.

ALABAMA LEGHORN FARMS CO. -- Box E -- MULGA, ALABAMA



EVANS SINGLE COMB BUFF LEGHORNS

They are "Business Buffs" in every sense of the word. Extra good layers as well as winners—therefore payers. My winnings at Tennessee State Fair, Sept., 1912, as follows: 1st cock, 2nd cockerel, 2nd and 3rd hens, 5th pullet and 1st pen. Tullahoma, Tenn., Aug., 1912, all 1sts and 4 seconds. Augusta, Ga., 1911, 3 firsts. Eggs only \$1.50 for 15. \$8.00 per 100. Special mated pens \$2.00, \$3.00, \$5.00 for 15.

Fawn and White Runner Duck eggs, \$1.50 for 12. White egg strain. Write for mating list to-day.

W. W. EVANS

1411 14th St., (Eastland)

Nashville, Tenn.

over she at once sets it right again.

Why does a hen do this? Because some chicks might not be able to get themselves back into the proper position again, and if they pecked out through the bottom the fluids of the egg would stop the hole and the little chick, just beginning to breathe, would be drowned in its own egg fluids from want of air. But how did the hen know?

This is only one of the many wonderful things that the hen knows and does. And yet she never belonged to a mothers' club and read essays on the science of maternity or lectures on race suicide. Such things make us wonder how little we know about this world after all!—Exchange.

VALUABLE PARAGRAPHS

When the young chickens are afflicted with leg weakness, feed them bone meal.

Always feed the young poultry in the morning before giving them any water to drink.

It is much better to furnish a good wallowing place for the fowls than to be all summer saturating the hen house with something to kill lice.

Provide shade and plenty of fresh water for fowls during the extremely hot weather.

How long since the chicken's water vessels were scalded and the feed trough cleaned?

Fowls which are the neatest dressed and packed find the readiest call at the highest prices.

Experiments show that the yearling hen lays 40 per cent more eggs than the hen 2 years old.

Boards a foot wide set on edge so as to form a square make a good pen for ducks and goslings.

Young poultry for market must be kept growing from the time they are hatched until ready to sell.

By keeping coops and houses disinfected by dry earth or plaster, an epidemic of cholera may be avoided.

The fowls losing their feathers is often caused by want of green food or of a dust bath. See that both are supplied.



Layers are payers. The more eggs, the more profits. It is the number of eggs, not the number of hens that determines the season's income. For lots of eggs use

Pratt's Poultry Regulator

Makes hens lay because it puts them in condition to bear the strain of egg production.

25c, 50c, \$1; 25-lb. pail \$2.50

During the winter months much loss is caused by colds, catarrh and roup.

Pratt's Roup Cure

25c, 50c, \$1

Is the one sure preventive and cure

"Your money back if it fails"

Pratt's 160-page poultry book 4c by mail.

Get Pratt's Profit-sharing Booklet

Our products are sold by dealers everywhere, or

PRATT FOOD CO., Philadelphia, Chicago



Crystal White and Imported Orpingtons

I can furnish you eggs from choice females of low down, blocky type, red eye, low comb, fine color and low spreading tails, mated to males that are just as good, for \$4.00 per 15. Utility matings, \$2.00 per 15. Liberal discount on larger lots.

GEO. W. BARNES

--

Box 340-E

--

NORWALK, OHIO

Barred PLYMOUTH ROCKS

At the great Abingdon, Va., show, held Dec. 10-13, 1912, in a very strong class of Rocks, we entered three cockerels, one hen, one pullet and one pen. We won 1st, 2nd and 5th cockerel, 1st pullet, 1st hen, 1st pen. Special for best hen in show. American Barred Rock Club specials for the best colored male, best shaped male, best colored female, best shaped female, Silver Cup for best pen, and many other specials. Both club ribbons on male were won by our first cockerel, and both club ribbons on female were won by our first pullet. This record has never been equaled at the Abingdon show, and it is a great Barred Rock show. We have the birds. We have the QUALITY. If you need BARRED ROCKS give us a trial. We guarantee to please you.

WOLF CREEK POULTRY YARDS, M. H. SMITH, Prop. Box 242. ABINGDON, VA.

THE WORLD'S BEST STRAINS OF THE TWO BEST BREEDS.

S. C. Buff Orpingtons--White Wyandottes

Pen Winners in Strongest Competition. Eggs and stock in season. Prices reasonable.

GEO. C. FIFE, 206 Austell Building, ATLANTA, GA.

BUFF ORPINGTON DUX

AMERICA'S BEST. Winners at Chicago and Indianapolis.

Place your egg orders early. \$3.00, \$5.00 and \$7.50 per 12. Satisfaction guaranteed.

B. O. SWAIM :: ZIONSVILLE, INDIANA

Poultry Judge. Secretary Buff Orpington Duck Club.

Single Comb BUFF ORPINGTONS Exclusively

"DOGGONE GLAD TO LAY"

Not the best, but good. Write me your wants. Satisfaction guaranteed.

FRED S. FLETCHER, Fifty-Ninth Street, BIRMINGHAM, ALA.

Life Member American Poultry Association. Member National S. C. Buff Orpington Club.
Member Alabama Poultry Association.

AN INCUBATOR THAT LEADS BY EIGHTEEN POINTS.

Since incubators were first thought of there have been scores of different makes, under various names, built. Each has possessed some point or points of value, and any one of them will hatch SOME chicks.

But never before in the history of modern incubator construction has so much REAL HATCHING VALUE been built into an incubator as can be found in the "Successful" machine, made by that old established firm, the Des Moines Incubator Company, of Des

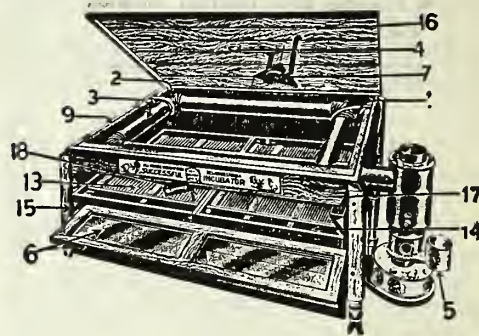
Moines, Iowa. Their ad. appears in this issue.

After over seventeen years of constantly increasing success in the same line, this firm is still located in the same town and on the same site where they started business. Their plant, however, has grown from a small shop to a manufacturing enterprise of imposing size.

And back of this growth is this fact: The Des Moines Incubator Company have constantly improved their product, and the material put into it, at a time when many others were cutting the corners in order to reduce the cost of manufacture.

Every change made in the "Successful," has been a change which meant increased results for the user. First Grade California Redwood, for example, now forms the inner casing of "Successful," and yellow pine the ceiling for the outer case. All corners of the machine are interlocked or dadoed. Thus material and workmanship equal that of a hand made cabinet.

The motto of this firm might readily be expressed as "Forgetting expense of manufacture, how can we make our incubators better and more profitable to the poultryman." Besides the two big points mentioned above, they have incorporated sixteen other valuable items of construction which make the "Successful" unsurpassed in quality. All these eighteen points are fully illustrated and described on pages 16 and 17 of the new free



catalog. On page 7 of the same catalog will be found the sure, clear proofs of the lead these incubators have taken over other machines by out-hatching eight other makes of incubators.

The "Successful" Brooders are also made of California Redwood this year, and are equipped with the same automatic heat regulator which has given such perfect service in the incubators.

Still another innovation, for the user's benefit, is the offer with each hatching outfit of a most complete poultry course in twenty lessons. These lessons show, in a novel way, where the biggest profit in poultry lies, and not only demonstrates an economical production, but also shows how to sell your product at the highest price obtainable. If you are a poultry beginner, you need this course; if you are already experienced you will appreciate the advice given.

At any rate send for the big "Successful" poultry book, which is full of practical incubator, brooder and chicken facts and is absolutely free. For ten cents the Des Moines Company will send you, with the free catalog, a booklet on "How to Raise 48 Chicks Out of 50 Hatched." Remember the name and address—Des Moines Incubator Co., Des Moines, Iowa.

AN INCUBATOR WITH THE BOTHER OF FILLING THE LAMP ELIMINATED.

When folks start out to raise chickens they figure every cent closely—they watch expenses carefully in order to figure out the profits at the year's end. And so when a farmer or poultryman—or his wife, either, for that matter—decides to buy an incubator they want to know exactly what every detail is going to cost.

And when it comes to counting this cost, we must not forget two of the biggest factors—time and labor. And that is why the X-Ray Incubator is so popular—it saves so much of both; for one filling is enough for the whole hatch. Anybody who has a working Incubator on his mind, realizes what a relief it is. No anxiety, no danger from forgetting.

And think of the cleanliness! The large oil tank holds one to two gallons and this does the work to a minute! In addition to this point of economy there is safety gained. The automatic trip is one of the patented features of the X-Ray and it so manages the burner that when there is any excess heat, the flame is instantly cut down, and the required temperature restored. This keeps the eggs exactly as if an old hen were covering them, and it doesn't waste one drop of oil. Besides every good chicken-raiser knows that too much heat is as bad as too little, and this danger is never to be feared with the new patent. And we must not forget the economy—four to six dollars a year saved on oil!

They say, too, that this oil tank is tested under a ten-pound air pressure under water. Now everybody may not quite understand this theory but they can get the point when they realize that this simply means that they can't leak. And leakage means more than wasted oil, even more than the danger of a possible lost hatch—it means that there is no dirt, odor or unpleasant oiliness about the oil tank of an X-Ray Incubator, and this is a

big appeal to the poultry raiser, especially if she is a woman and a housewife.

The maker of the X-Ray Incubator has placed the lamp differently from any other manufacturer's method; it is underneath the machine in a horizontal position, and the many reasons why this is proving so immensely successful include the very simple one of enabling him to make an oil tank large enough to hold enough oil to do for the entire hatch.

One thing which attracts the attention of everybody in connection with this machine is that, no matter whether the user is a poultry fancier, a regular dealer in chickens, a farmer on a large scale, or the man on a small suburban lot, who sells eggs "on the side," they are all agreed as to the wonder-working of the X-Ray Incubator.

The manufacturer lives at Wayne, Nebraska, and will be glad to send letters, catalogs, etc., to back up what these folks all say. Anybody who is interested can write—it's only a postal anyhow, and an Incubator is a mighty important feature of life in the chicken-lot. Investigation is well worth while.

WHAT MY DRAKE TOLD HIS MATES.

Interpreted by Dr. S. S. Peterson,
Morganton, N. C.

Quack! quack! come brothers, sisters all,
I have a story I'll relate.
I've been away for quite awhile,
All alone, without a mate.
You saw the master catch me up
Without a word of warning;
He put me in a little box
And kept me there till morning.
Then came around the hired man
With bar of soap and water,
"Quack, quack," he said, "my little man,
You are a dandy squatter!"
"Q-u-a-c-k, quack, quack," I said to him,
"What in the mischief does this mean?"
"The Boss," said he, "has sent me round
To wash you up most nice and clean,"
And thereupon he caught my head
And placed me in the tub,
Then I cried out with fear and pain
As he began to rub.
"Hold up," I said, "my new-made friend,
This water is too hot!"
Take off my coat and cut my throat
Before you put me in the pot!"
"Quack, quack," said he, "just you be still:
I'll fix you up most brown,
And then the Boss, with Auto'bile,
Will take you down to town;
He will place you in the show room
Where many hundreds are,
Where all the people come and gaze,
From the land, both near and far."
And now to you my sisters all
And all my brothers too,
Just such a time I never had,
With all acquaintance new!
The Judge came round with stick in hand—
I thought my time was near—
He chased me up and down the cage—
My very soul was filled with fear!
He took me out; he turned me round;
He ruffled up my shirt!
He put me back and rubbed me down,
And I began to flirt
With Mrs. Duck, across the aisle—
She caught my eye, as most ducks do,
No matter what th' 'casion—
Oh, I was crazed! all in a stew.
I soon cooled down; myself again—
My wits were all collected;
I soon found out what he had done—
I just had been inspected!
Soon after this there came around
A man with card and tack,
I heard him ask the nice old Judge,
"Where is your pretty Quack?"
I then stood up, my head erect!
My heart was all a-flutter,
And when he placed a big Blue Card,
The crowd was all a-splutter!
The crowd, it roared; the crowd it surged!
It came in my direction;
They razed the roof; they stormed the floor,
And said I was "perfection!"
"What does it mean?" I asked myself,
"All this flurry and commotion?"
The Judge stood up and stilled the crowd
And said "It's your promotion
Into the class of Blue Card Birds,
Aristocrats of all the fowls;
These other birds compared with you
Are but as little owls."
Perhaps I'll go again next year,
With dress-suit all anew;
I'll take the show-room as by storm—
My equal, there'll be but few!
And when big shows we have no more
We'll all squat down to sleep,
And praise the muses from above,
And have no cause to weep.

Galvanized Steel



Lice-Proof Nests

HAPPY HENS EARN BIG PROFITS

Keep your hens happy and laying by keeping them free from profit killing lice and mites. Equip your laying houses with **KNUDSON Galvanized Steel LICE PROOF NESTS**. These wonderful, sanitary, patented nests can't get out of order, last a life time and earn their cost many times over. Regular price, \$3.90, set 6 nests—special introductory price, \$3.50; 3 sets, 18 nests, \$10. Write for our free catalog. Galvanized Steel Brood Coops with Runs, Chicken Feeders, etc. **KNUDSON MANUFACTURING CO., Box 487, ST. JOSEPH, MO.**

SINGLE COMB BUFF LEGHORNS

The sensational winnings of Brook Lawn Poultry Yards on S. C. Buff Leghorns have attracted the attention of a large circle of poultrymen. Our 1st prize cockerel at Tennessee State Fair, was also 1st in class at Cleveland and 2nd highest scoring bird in show, missing 1st honors by only one-half point, all varieties competing. Several states and a number of counties were represented. Also won second highest scoring pen in show, all varieties competing. All regular 1sts and 2nds and several special premiums.

Some nice stock for sale. Let us furnish you a nice pen, 4 good females and a male, either old or young stock, for \$10.00; or a good utility trio for \$6.00. Or place your orders for hatching eggs with the firm which has won more blue ribbons this season than any S. C. Buff Leghorn breeder in the South. Eggs \$1.50, \$3.00 and \$5.00. The last two yards contain nothing but prize winners at such shows as Tenn. State Fair, Lebanon, Hartsville, Cookeville, Knoxville and Cleveland. Write for mating list.

BROOK LAWN POULTRY YARDS, R.F.D. No. 2, BRUSH CREEK, TENN



S. C. BROWN LEGHORNS

FOR SALE—Single Comb Brown Leghorn Yearling Cocks, Yearling Hens, Cockerels and Pullets. Something that will make good breeders. They are from the old Show stock. Circulars FREE.

M. S. COPELAND, Route 1, POWELL STATION, TENN.

ZENOLEUM AS A DISINFECTANT.

Professor T. E. Quisenberry, of the Missouri State Poultry Experiment Station, at Mountain Grove, in a letter to the Zenner Disinfectant Co., Detroit, Mich., dated Dec. 20th, 1912, said:

"We have used Zenoleum Disinfectant in our National Egg Laying Contest during the past year to maintain sanitary conditions, and it proved very satisfactory. We also found it very beneficial in the treatment of some poultry diseases.

It is one of the most satisfactory products we have ever used among poultry for the several purposes for which it is intended."

Great interest is being manifested by poultrymen in the Brooder Stove system of brooding chicks. Mr. N. P. Husted, of Grandville, Mich., who used four of these stoves during the 1912 season has had hundreds of letters asking about his success. His results were so good that news of them has encouraged many who were becoming disgusted with trying to raise chicks because their losses were so heavy. Mr. Husted has been swamped with mail and would esteem it a favor if poultrymen would address their inquiries to the Simplex Brooder Stove Co., 130 Fourth St., Grand Rapids, Mich., instead of to him.

This company has the exclusive right to make and sell, east of the Rocky Mountain, the stove which has been most successful in California. The maker of that stove sends to the Simplex Company, letters from many eastern inquirers who would save time by addressing them as above.

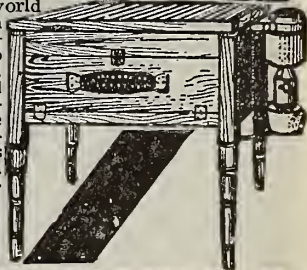
The Simplex Brooder Stove Co., has an illustrated descriptive catalogue which tells all about the stove, how to use it, how to build houses just adapted to its use with working plans, names and addresses of users, etc. This book will gladly be sent free if you mention *Industrious Hen*.

The California Redwood is constantly gaining in popularity in the manufacture of incubators and brooders, and indeed no lumber is more suitable for the purpose. This popularity is due to the fact that it is susceptible of very fine finish and its adaptation to all changes and conditions of climate. The Petaluma Incubator Company was the first to see the advantages of the use of California Redwood, as in fact, many years ago, they were the first to begin the manufacture of incubators. The "Petaluma" is the pioneer hatching machine. Its incubator antedates that of any other on the market, and to them, therefore, and to the energy, persistence

Why Don't You Buy a Guaranteed Incubator?



That means a Fairfield. The tried and tested incubator acknowledged by all to be the World's Best Hatcher. Don't experiment. Don't gamble with your chicken profits. Make money on every hatch with a Fairfield, the only incubator in the world guaranteed to hatch 90% or better. No experience necessary to operate a Fairfield. Hatches equally well in cold or warm climates. Costs no more than ordinary uncertain hatchers, but pays for itself every hatch and earns a profit besides.



FAIRFIELD Incubators

The Only Guaranteed Hatcher in the World. Write for Trial Offer. I know the Fairfield is the best incubator made. That's why I guarantee it in the strongest way. The thousands of Fairfield in use back my claims. To convince yourself write for my trial offer. Get full particulars of my guarantee. Get my free catalog before you buy, then you will be able to settle the incubator problem right.

SAM THOMPSON, Pres.,
Nebraska Incubator Co. Main St., Fairfield, Neb.

Black Orpington

One surplus Black Orpington Cockerel for sale at reasonable price. Seven months old, weighs eight pounds. Hatched from eggs from Mrs. L. L. Upson's best pens—these pens being made up of First Prize Winners at biggest shows. MRS. J. D. OVERSTREET, 397 Morgan Ave., Macon, Ga.

SWADLEY'S PARTRIDGE WYANDOTTES



They have been bred in line for years. I have won more firsts than any other Southern Breeder. I am the first in the South to win over American, Asiatic, and English Classes on hens and cocks. On account of making room for breeding pens, I will give some rare bargains on cockerels to quick buyers. Cockerels, \$2.50 each; eggs, \$2.50 per setting of 15. Member and director of National Partridge Wyandotte Club. Reference Unaka National Bank.

R. A. SWADLEY
JOHNSON CITY, TENNESSEE

and patience of their Mr. L. C. Byce, is due the credit, to a very large extent, of the development of incubators and brooders to the extent which exists at this time. They have a very interesting booklet "How It All Came About," giving some facts of the industry, a copy of which they will very gladly send upon receipt of your request. Address them at either of their offices, Box 381, Indianapolis, Indiana, or Box 324, Petaluma, California.

James Brown, President of the Brown Fence & Wire Co., Cleveland, Ohio, sends an invitation to all our readers to write for his new 1913 catalogue. He promises to save money for chicken raisers on poultry fencing that is five times stronger and more durable than ordinary chicken netting. He also promises to save you money on any other kind of wire fencing you may need, for any purpose. And we have known Jim for many years and know that he tells the truth. Brown fence is sold direct from factory to you, all freight prepaid—satisfaction absolutely guaranteed. Why not write for Brown's new book, see what his new prices are, note how his fences are made and what they are made of. Brown usually does something worth while in his yearly catalogues and we are sure the 1913 editions are up to his standard. If so, you certainly should not miss them. Address a postal to Brown Fence & Wire Co., Dept. 37, Cleveland, Ohio, and the Bargain Fence Catalogue will come by return mail.

INCUBATORS AND THEIR HATCHES.

Influence of the Machine on Size and Strength of the Chick.

That some incubators will hatch stronger, bigger, surer-of-living chicks than others is no longer disputed by practical poultrymen. There was a time when some were disposed to argue the point, but facts have accumulated so rapidly that to question these results now is almost to convict one's self of unfamiliarity with incubator methods and hatching progress. Incubators are of all grades. They run from the high-class machine, designed to "Hatch Every Hatchable Egg," down to the cheap, box-like affair which hatches a few bandy-legged weaklings. Such chicks have little chance of growing to maturity and if they do, are not the kind from which paying strains are developed. On the other hand, the "Hatch Every Hatchable Egg" kind will give you big, sturdy chicks that live—the kind you do not have to dope with one thing and another. They are "well-born" chicks—the kind that leads you securely along to poultry success.

How then are we to judge which machine is good and which to avoid? Price cannot be depended upon. We have in mind one that sells as low as \$8.00, which has, time and again, hatched every hatchable egg, and gotten strong livable chicks, when, under exactly similar conditions, another incubator running alongside, hardly reached 50 per cent. Of course, construction and such details form a fairly reliable guide, but as a matter of fact, the great big sales of incubators are made to persons without previous experience in running them, and almost wholly without technical knowledge. But if this were otherwise, probably a very small proportion of chicken owners are well enough posted to judge a machine by its seeming construction. Note we say "seeming," for wall insulation and other details are impossible of examination without tearing the incubator to pieces.

With all these differences of greater or less importance, there is a rapidly growing desire among purchasers "to be shown" before they buy—a desire to see the incubators in operation right while the chicks are hatching, so that one can see precisely how many and what kind of chicks the incubator will produce. Last season, one manufacturer who has adopted this selling plan, claims to have sold 100,000 incubators during the season, a number, he claims, more than equaling the sales of any two other makes. Special selling agencies have been established in large and small cities so that prospective buyers can not only see the incubators in operation and hatching, but can receive personal instruction and help in running the incubator he buys. The advantages of having a man handy are "too numerous to mention," although as a matter of fact this particular incubator—the Buckeye—is one of the simplest and easiest to handle.

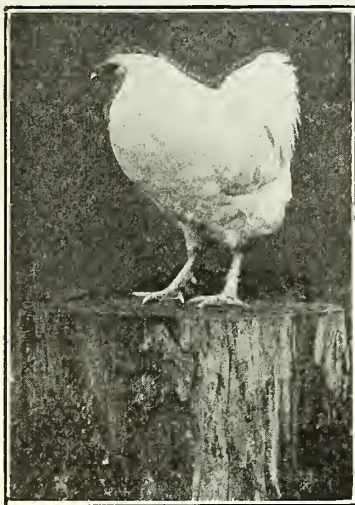
It is quite probable that there is a Buckeye dealer in your own town. If there is, it would pay you to call at his store, and get the Buckeye facts he can give you. If you don't know whether there is a Buckeye store in your locality, write to The Buckeye Incubator Company, 525 Euclid Ave., Springfield, Ohio. They will send you their dealer's name, and also mail you a copy of their very instruct-

DUMARESQ BUTTERCUPS

THE RIBBON WINNERS

From original imported fowls. Famous all over the country. Stock and eggs for sale. Exhibition birds a specialty. PARTICULAR ATTENTION PAID TO FOREIGN SHIPMENTS. SEND FOR CIRCULAR AND PRICES.

MRS. J. S. DUMARESQ
CATO'S HALL -- EASTON, MARYLAND
Vice-President American Buttercup Club.



White ORPINGTONS

Jackson Strain

Two Big Shows

Two Big Victories

At Jackson, Mississippi, on Five entries I won 1st and 4th Pullet, 1st Hen, 3rd Pen.

East Mississippi Poultry Association (The Mississippi Branch A. P. A. Show) I won 1st and 3rd Cockerel, 1st Hen, 2nd Cock and 4th Pullet. A. P. A. Medal for best White Orpington cockerel. Silver Cup for Display. Silver Cup for best White Orpington Male.

Pens mated and ready for business. Mating list ready January 1st. Get one; the price of my eggs will surprise you.

HARRY CALLICOTT COLDWATER, MISS.

LITTLE'S White WYANDOTTES

Have won in hottest competition at some of America's Largest Shows. Have won from New York to Atlanta, Georgia. Have some high-class breeders for sale. Mating list ready January 15th. Won five sweepstake cups this season.

T. L. LITTLE .: Box 534 .: CAMDEN, SOUTH CAROLINA
President S. C. Branch A. P. A.

LANDIS CRYSTAL WHITE ROCKS

Have been winners at the State Indianapolis shows for the past 16 years. In fact at all of the large shows. And when it comes to the laying quality there isn't any better. Don't put money in fine catalogue, I give it to customers. I have a fine lot of Cocks, Hens, Cockerels, Pullets, and selected breeders. There isn't any better; quality is what counts. Order from this Ad.

JOHN LANDIS -- R. F. D. 1 -- EDINBURG, INDIANA



MONEY MAKERS

35 varieties. Chickens, Ducks, Geese, Turkeys, O. I. C. Hogs. Fine stock and eggs at low prices. Big illustrated circular and beautiful picture, 16 x 20, in colors, only 10c. Don't miss it.
JOHN E. HEATWOLE, HARRISONBURG, VA.

tive catalogue. This is one of the most readable books about incubators and poultry we have seen. Not too long, yet it gives you an abundance of facts. Every reader of this paper ought to have a copy.

THE HEN.

(Written by Eli Haggard for the American Poultry Association.)

Who helps to robe the blushing bride,
While helping, cackles with much pride?
Who helps to build the wedding cake?
Who lives and lays just for our sake?
The Hen!

Who helps to feed the girls and boys?
At Christmas time helps buy their toys?
Who helps to pay the doctor's bill?
Who stands by us, and always will?
The Hen!

Who, when Miss Fortune's hand has struck,
An' we ain't havin' any luck,
Comes from the nest, begins to cluck?
Who cackles loud with all her powers,
Amid the sunshine an' the showers;
Who is our friend, is always ours?
The Hen!

Who protects us from all harm?
Helps lift the mortgage from the farm?
Makes deposits in the banks?
Who is due our vote of thanks?
The Hen!

Who, in the springtime seems to know
'Tis time to let the old hat go,
The Easter bonnet now is due,
It's time for something stylish, new?
The Hen!

Who, when we're laid up, sick in bed,
Must be partic'lar how we're fed,
No matter what we want or beg,
Brings to us a soft-boiled egg?
The Hen!

Who, when the preacher comes around,
In the country or in town,
Altho it breaks her family ties,
Makes a willing sacrifice?
The Hen!

Who never fails to advertise,
Showing to the world she's wise,
In summer an' autumn, winter an' spring,
Always makes the welkin ring?
The Hen!

Who is the friend of the A. P. A.?
Who for its membership doth lay,
Making the poultry business pay?
Who's always willing to cackle or set?
In the poultry yard, it's the suffragette—
The Hen!

When the field of golden grain
Is cut short for want of rain;
When the worms destroy the cotton,
Corn ain't good, but awful rotten;
When potatoes fail to grow,
An' we don't reap the things we sow;
When the mule ain't worth half price,
We're only offered good advice;
When the clover fails to bloom,
An' every prospect's wrapped in gloom,
Who cheers us with a serenade,
Makes announcement that she's laid?
Who saves us from distress, despair?
Who's on her job, is always there?
The Hen!

When our days on earth are done,
When the race of life we've run,
Who'll help to pay the undertaker?
(Our faithful friend will not forsake her.)
Who'll pile up dollars, cent by cent,
'Till she erects a monument?
The Hen!

Gather the eggs intended for hatching twice each day, and handle them carefully.

Handy nests are a comfort to the hens and a great convenience to the egg gatherers.



Quintessent Anconas

Show Birds and Breeders for Sale. Winter Layers

Winners at Madison Square, Philadelphia, Baltimore and Elsewhere

H. E. PORTRUM

--

ROGERSVILLE, TENN.

SINGLE
COMB

BUFF ORPINGTONS

My birds are prize winners this season at Memphis, Atlanta, Augusta, Montgomery and Indiana State Fair. If you want birds of quality write me. Eggs, \$1.50, \$3.00, \$5.00 and \$10.00 per 15. Write me your wants.

L. A. BUZARD

--

LAMISON, ALABAMA

WHITE ORPINGTONS

I am offering to the public some of the grandest bargains of the day in my 1913 matings of WHITE ORPINGTONS. If it is Orpingtons of size, type and quality you are looking for, I have them. Won 1st hen and second pen in the hottest of competition at the big Birmingham, Ala., Show, December 10th to 14th, 1912; no other entries in this class made by me.

Eggs for hatching from my grand birds, \$3.00, \$5.00, \$7.50 and \$10.00 per 15.

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BARRETT'S BLUE RIBBON STRAIN

MOTTLED ANCONAS

Stock and eggs for sale at reasonable prices. Write for mating list.

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MORRISTOWN, TENN.

State Vice-President Ancona Club.

Turkey Travesties.

A turkey goes hungry all his days, and gets stuffed when the operation no longer appeals to him. That's life for you.

The three children of the family complain because a turkey has only two legs. Not so with the farmer, who had to capture it.

It is a poorly wasted turkey that had no turning.

The peacock may be a beautiful bird but it's the turkey that commands the money.

You can roast a farmer's pet turkey and cook his goose—but you pay for them.

It's a wise housewife who prepares sage dressing.

The eagle we put on our coins; the turkey we place near our hearts.

The fact that a turkey uses fowl language is no sign he's tough.—Judge.

Put a few tobacco stems in the nest of the setting hen. It will drive away the lice.

You can lose a valuable customer by allowing just one bad egg to get into the basket.

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Cleanliness, disinfection, and fumigation where available, are required these warm days if mites and lice are to be kept down.

One advantage with guineas is that they reach maturity quicker than chickens.

Colonize your young chicks in the orchard. It will be good for them and for the trees.

No man can raise poultry and produce eggs at so low a cost as the farmer.

The Industrious Hen can supply you with any Poultry Book published.

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Now as the hatching season is beginning and you surely want to buy the best stock that you can get for the money, we will quote you a few of our winnings in four state fairs in competition with the large Eastern breeders.

In the SINGLE COMB BUFF ORPINGTON CLASS at the Nashville State Fair we won: 1st hen; 2d cock; 2d pullet; 3d and 4th cockerel; 3d and 5th pen; 5th cock. Also a special premium on the hen for being the best in the Fair.

At the Alabama State Fair we won: 1st cockerel; 2d cock; 2d hen and 2d pullet.

At the Mississippi State Fair, one of the largest ever held in Jackson: 1st cock; 1st hen; 1st and 3d cockerel.

At the Louisiana State Fair we won: 2d cock; 2d hen; 3d cockerel.

We have the nicest lot of SINGLE COMB BLACK ORPINGTONS which were not exhibited this year.

In the SINGLE COMB BLACK MINORCA CLASS, at the Alabama State Fair we won: 1st, 2d and 4th cockerel; 1st, 2d, 3d, 4th and 5th pullet; 1st and 2d cock; 2d, 3d and 4th hen; 1st and 2d pen. Also a premium for best display of Asiatics.

At the Mississippi State Fair we won: 1st, 2d and 3d cockerel; 2d and 4th pullet; 2d hen; 3d cock, and 1st pen. Louisiana State Fair: 1st and 2d cock; 1st, 2d and 3d cockerel; 1st, 2d, 4th and 5th pullet; 2nd hen; 1st and 2d pens.

This should be evidence that we have stock or eggs that you are looking for. We have the largest and best equipped poultry farm in the South. You do not have to go East for eggs for hatching season, taking chances on the climate, when you can get them just as good for possibly less money. All our stock are free range. They are up to the Standard in weight, type and color. Correspondence solicited. Day old chicks only when ordered.

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Breeder of the best BLACK ORPINGTONS, RHODE ISLAND WHITES, RHODE ISLAND REDS, INDIAN RUNNER DUCKS, in Fawn and White, and White. Stock and Eggs for sale. 1912 Winnings as follows:

BLACK ORPINGTONS, Macon, 2nd pen, one entry; Savannah, 1st and sweepstakes, cockerel, one entry; Atlanta, 2nd cockerel, two entries.

RHODE ISLAND WHITES, 1st cockerel and 1st pullet, Macon, two entries; Savannah, 1st cockerel and 1st pullet, two entries; Atlanta, 1st cockerel and 1st pullet, two entries.

INDIAN RUNNER DUCKS, Macon, 1st pen Fawn and White, two entries; Macon, 1st pen White, two entries; Savannah, 1st pair Fawn and White, 2nd pair Fawn and White, 1st White and Sweepstakes, 3 entries; Atlanta, 2nd and 4th pullet and 4th hen, Fawn and White, 4 entries.

WHITE ROCKS

My White Rocks were second in the White Rock class in the International Egg Laying Contest. They are excellent show birds and will pay big dividends.

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My 1st pen is headed by the cockerel that won 1st, with strong competition, at the East Alabama Poultry Association. My 2nd pen is headed by the father of this cockerel, and the 3rd pen is headed by the 2nd prize cockerel, Alabama Poultry Association, at Montgomery, Alabama. Hens mated with these males are the whitest I have seen this season. Eggs, \$5 per 15.

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Winning at Cincinnati, January, 1912—1st R. C. cockerel, 1st R. C. pullet, 3rd S. C. pullet, 4th S. C. cockerel, on five entries.

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Birds this season better than last. Nice exhibition and breeding stock for sale. Write me before buying elsewhere. Utility stock \$1.00 apiece while they last. Order at once.

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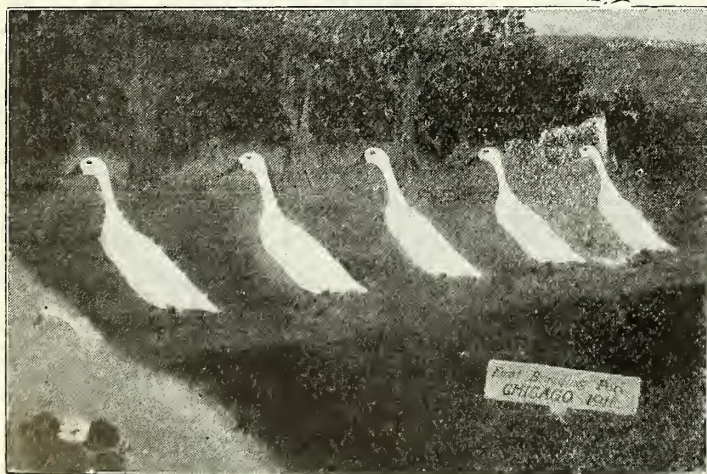
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Our ducks have won first prizes wherever shown, including Madison Square Garden, New York, Chicago, Cleveland, Savannah and Atlanta.

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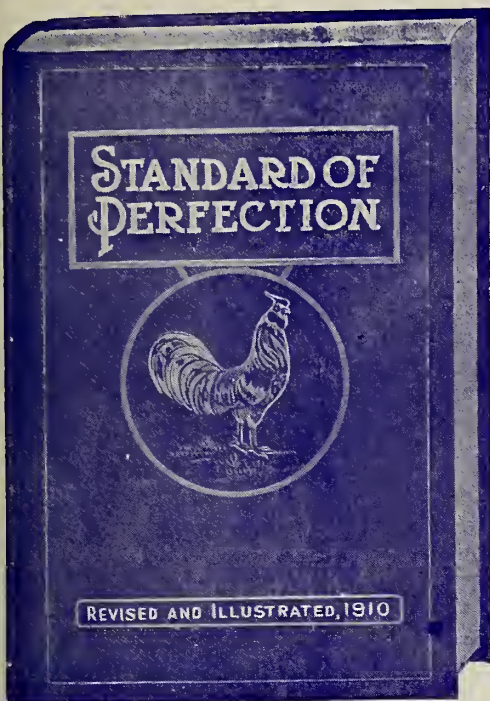
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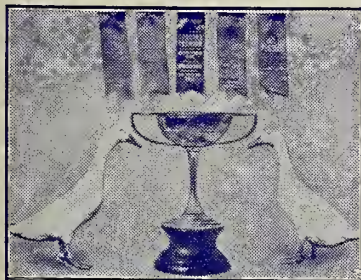
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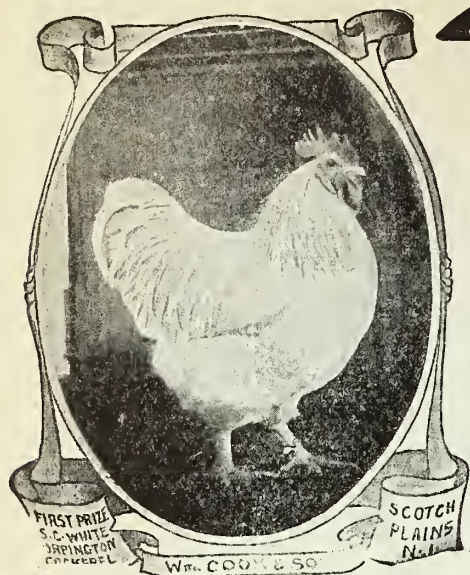
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